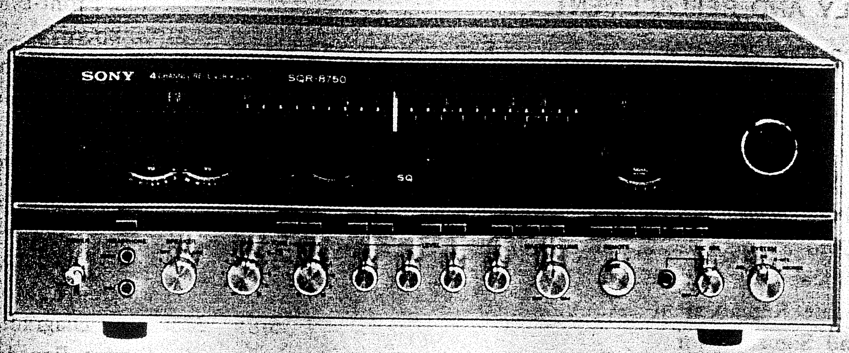
SQR-8750

USA Model



4 CHANNEL RECEIVER

SPECIFICATIONS

FM TUNER SECTION

Frequency range:	87.5 MHz~108 MHz
Sensitivity:	1.9μV (5.5dB), IHF 1.5μV (3.5dB), S/N=30dB
Signal-to-noise ratio:	70 dB
Capture ratio:	1.2 dB
Frequency response:	40 Hz~15 kHz $^{+0.5}_{-1}$ dB
Stereo separation:	better than 40 dB at 400 Hz
Harmonic distortion:	mono 0.2 % at 400 Hz, 100 % (75 kHz deviation) mod. stereo 0.5 % at 400 Hz, 100 % (75 kHz deviation) mod.

AM TUNER SECTION

Frequency range:	530 kHz~1,605 kHz
Sensitivity:	250μV/m (48dB/m) at 1,000kHz, built-in antenna 100μV (40dB) at 1,000kHz, external antenna
Signal-to-noise ratio:	50 dB at 50 mV/m
Harmonic distortion:	0.5 % at 50 mV/m, 1 kHz

SQ DECODER SECTION

Harmonic distortion:	0.2 % at 250 mV, 2 kHz
Frequency response:	20 Hz~20 kHz ±3 dB
Signal-to-noise ratio: (short circuited)	SQ, R-MTX, 2→4 80 dB at 250 mV, weighting network A

AMPLIFIER SECTION

	4-ch operation	High power 2-ch operation
Continuous RMS power output ※ (less than 0.2 % THD)	30 W×4 (8 Ω) (at 20 Hz~20 kHz)	80 W×2 (8 Ω) (at 20 Hz~20 kHz)
Dynamic power output (IHF)	216 W (8 Ω) 288 W (4 Ω)	280 W (8 Ω)
Harmonic distortion (at rated output)	less than 0.2 %	less than 0.5 %

※ All channels driven simultaneously

GENERAL

Power requirements:	120 V ac, 60 Hz
Power consumption:	220 W
Dimensions:	520 (w) × 189 (h) × 370 (d) mm 20½ (w) × 7½ (h) × 14⅝ (d) inches
Weight:	18.6 kg (41 lb), net 21.6 kg (47 lb 11 oz), in shipping carton

SONY®

SERVICE MANUAL

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SECTION 1
TECHNICAL DESCRIPTION

1-1. SPECIFICATIONS

FM Tuner Section

Frequency range:	87.5 MHz ~ 108 MHz
Antenna terminals:	300 Ω balanced 75 Ω unbalanced
Intermediate frequency:	10.7 MHz
Sensitivity:	1.9 μV (5.5 dB), IHF 1.5 μV (3.5 dB), S/N = 30 dB
Capture ratio:	1.2 dB
Selectivity:	75 dB, IHF
Signal-to-noise ratio:	70 dB
Frequency response:	40 Hz ~ 15 kHz $^{+0.5}_{-1}$ dB
Stereo separation:	better than 40 dB at 400 Hz
Harmonic distortion:	Mono 0.2 % at 400 Hz 100 % (75 kHz deviation) modulation Stereo 0.5 % at 400 Hz 100 % (75 kHz deviation) modulation
19 kHz & 38 kHz suppression:	60 dB
Image rejection:	70 dB
IF rejection:	100 dB
Spurious rejection:	90 dB
AM suppression:	54 dB
SCA suppression:	68 dB
Muting level:	5 μV
FM discriminator output:	150 mV at 400 Hz (75 kHz deviation modulation) Impedance 2.2 kΩ

AM Tuner Section

Frequency range:	530 kHz ~ 1,605 kHz
Antenna:	built-in ferrite bar antenna and external antenna terminal
Intermediate frequency:	455 kHz
Sensitivity:	250 μV/m (48 dB/m) at 1,000 kHz, built-in antenna 100 μV (40 dB) at 1,000 kHz, external antenna
Selectivity:	45 dB at 10 kHz
Signal-to-noise ratio:	50 dB at 50 mV/m
Harmonic distortion:	0.5 % at 50 mV/m, 1 kHz
Image rejection:	50 dB at 1,000 kHz
IF rejection:	40 dB at 1,000 kHz

SQ Decoder Section

Harmonic distortion:	0.2 % at 250 mV, 2 kHz
Frequency response:	20 Hz ~ 20 kHz ±3 dB
Signal-to-noise ratio: (short circuited)	SQ, R-MTX, 2→4: 80 dB at 250 mV (weighting A network)

Preamplifier Section

Input sensitivity and impedance:

	Maximum* sensitivity	Impedance
PHONO-1	2.5 mV	50 kΩ
PHONO-2	5.0 mV	50 kΩ
MIC	1.5 mV	50 kΩ
AUX 2-CH TAPE 1, 2 4-CH TAPE REC/PB (input) DISCRETE IN	250 mV	50 kΩ

* Measured with specified RMS output power into 8 Ω loads (four channels driven simultaneously) at 1 kHz.

Maximum input capability:	PHONO 1	50 mV
	PHONO 2	100 mV
	MIC	1000 mV
Output voltage and impedance:	REC OUT	250 mV, 10 kΩ
	HEADPHONE	8 V, 235 Ω
	REC/PB (output)	30 mV, 82 kΩ

Frequency response:	PHONO 1 } RIAA equalization PHONO 2 } curve ± 0.5 dB MIC 100 Hz ~ 10 kHz $^{+0}_{-3}$ dB AUX, TAPE REC/PB (input) } 10 Hz~50 kHz DISCRETE IN } $^{+0}_{-2}$ dB
Tone control:	BASS ± 10 dB at 100 Hz TREBLE ± 10 dB at 10 kHz
Filters:	HIGH 6 dB/oct above 8 kHz LOW 6 dB/oct below 80 Hz
Loudness control:	+10 dB at 50 Hz, +4 dB at 10 kHz (volume control attenuation: 30 dB)

Signal-to-noise ratio:

	S/N	Weighting network	Input level
PHONO 1	72 dB	A	2.5 mV
PHONO 2	72 dB	A	5.0 mV
MIC	65 dB	B	1.5 mV
AUX 2CH TAPE 1,2 4CH TAPE REC/PB (input) DISCRETE IN	90 dB*	A	250 mV

* Power amp included

Power Amplifier Section

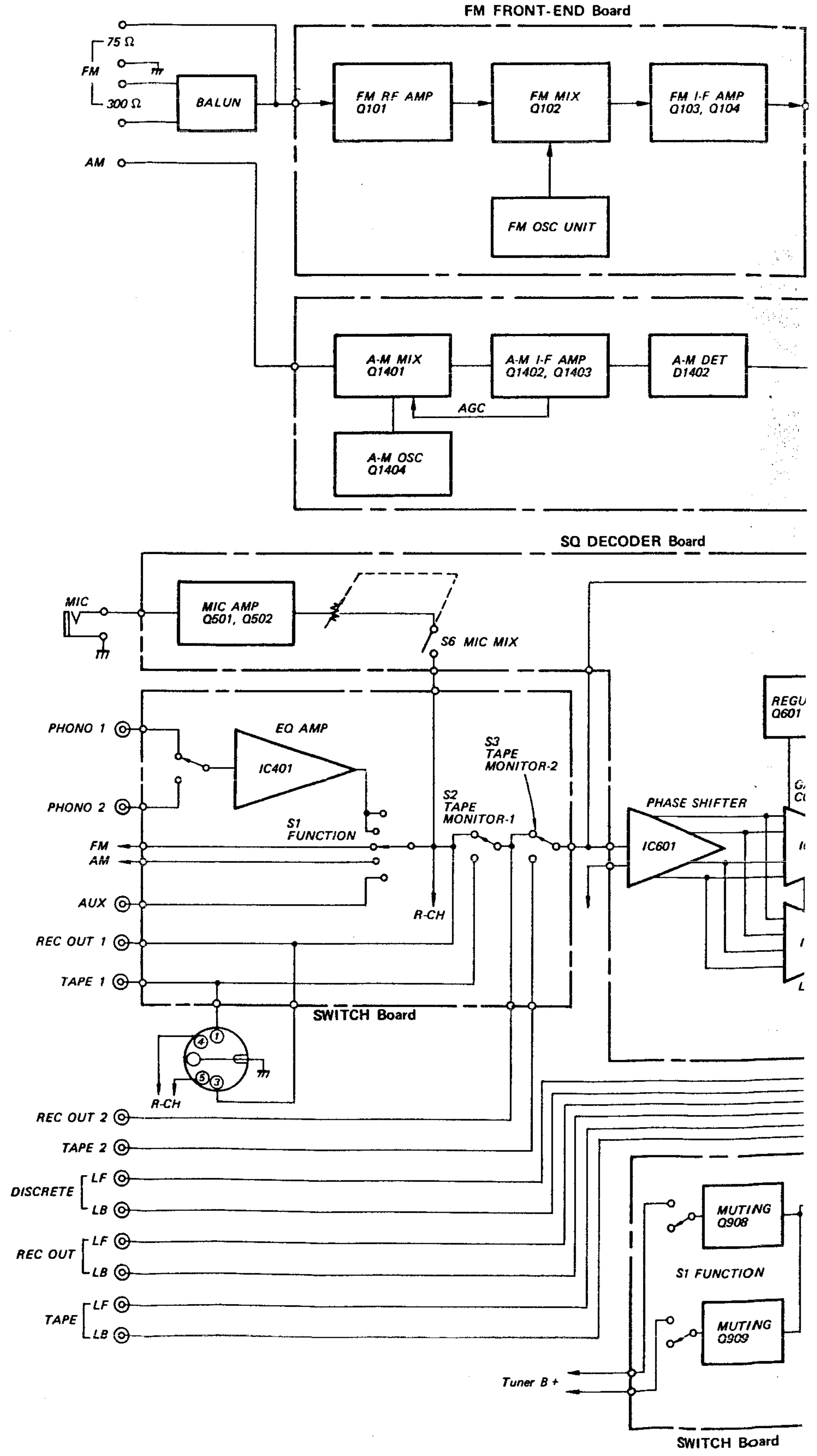
	4-CH operation	High power 2-CH
Continuous RMS power output ⁎ (less than 0.2 % THD)	at 20 Hz ~ 20 kHz 30W×4 (8 Ω) at 1 kHz: 36W×4 (8 Ω) 45W×4 (4 Ω)	at 20 Hz ~ 20 kHz 80W×2 (8 Ω) at 1 kHz: 85W×2 (8 Ω)
Dynamic power output (IHF)	216W (8 Ω) 288W (4 Ω)	280W (8 Ω)
Power bandwidth (IHF)	15 Hz~50 kHz (8 Ω)	15 Hz~40 kHz (8 Ω)
Harmonic distortion	less than 0.2 % at rated output	less than 0.5 % at rated output
	less than 0.1 % at 1W output	less than 0.1 % at 1W output
Residual noise	0.05 μW (A network)	0.1 μW (A network)
IM distortion (60 Hz: 7 kHz = 4:1)	less than 0.2 % at rated output less than 0.1 % at 1W output	
Damping factor	25 at 1 kHz, 8 Ω	

⁎ All channels driven simultaneously

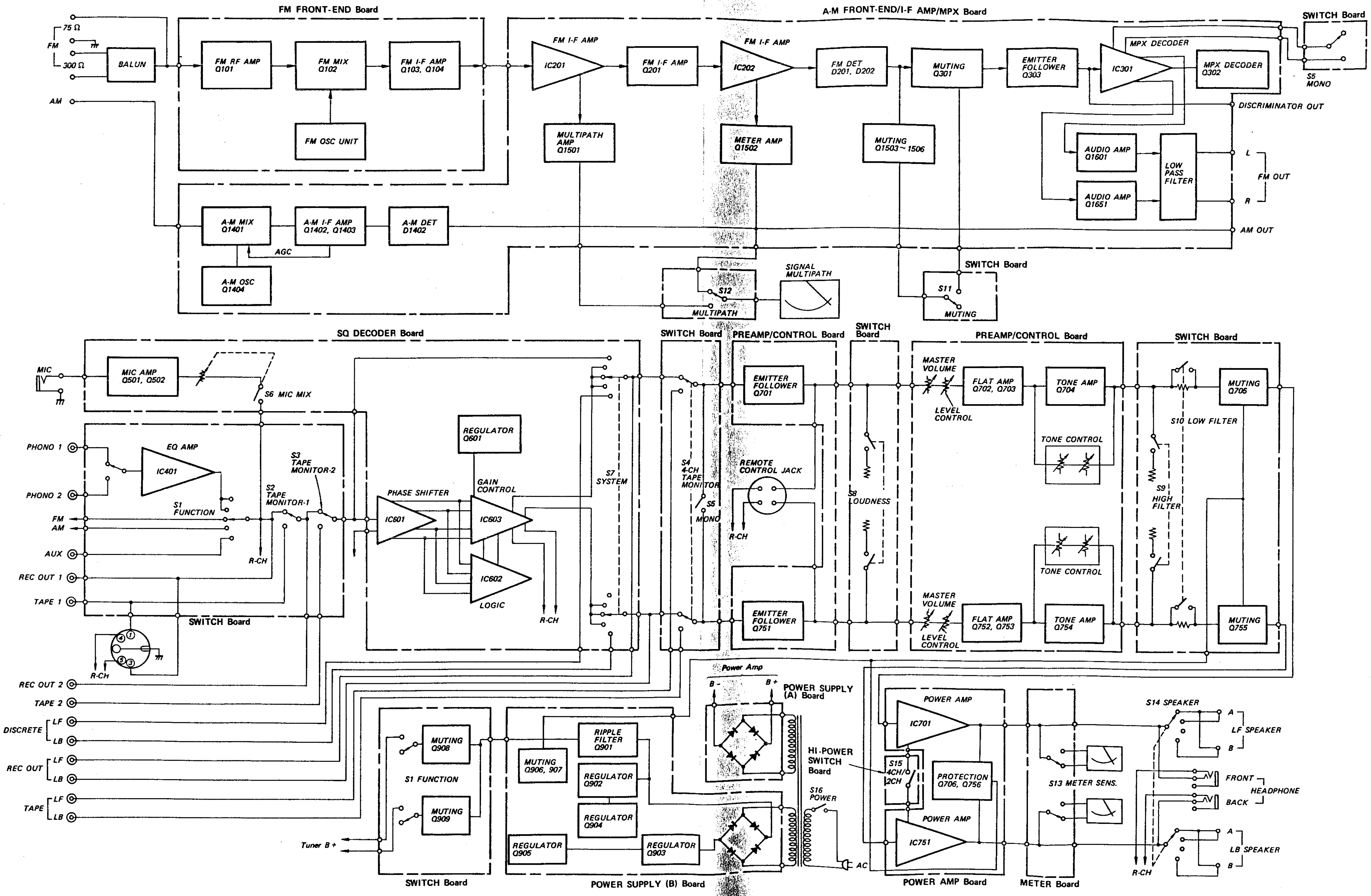
General

System:	SQ decoder with front/back and waveform comparator logic circuits, regular matrix decoder Superheterodyne fm/a-m tuner Direct coupled power amp with pure complementary symmetry (SEPP OTL)
Semiconductors:	11 ICs, 4 FETs, 52 transistors, 56 diodes
Power requirements:	120 V ac, 60 Hz
Power consumption:	220 W
AC outlets:	2 unswitched, 300 W maximum
Dimensions:	520 (w) × 189 (h) × 370 (d) mm 20½ (w) × 7½ (h) × 14⅝ (d) inches
Weight	18.6 kg (41 lb), net 21.6 kg (47 lb 11 oz), in shipping carton

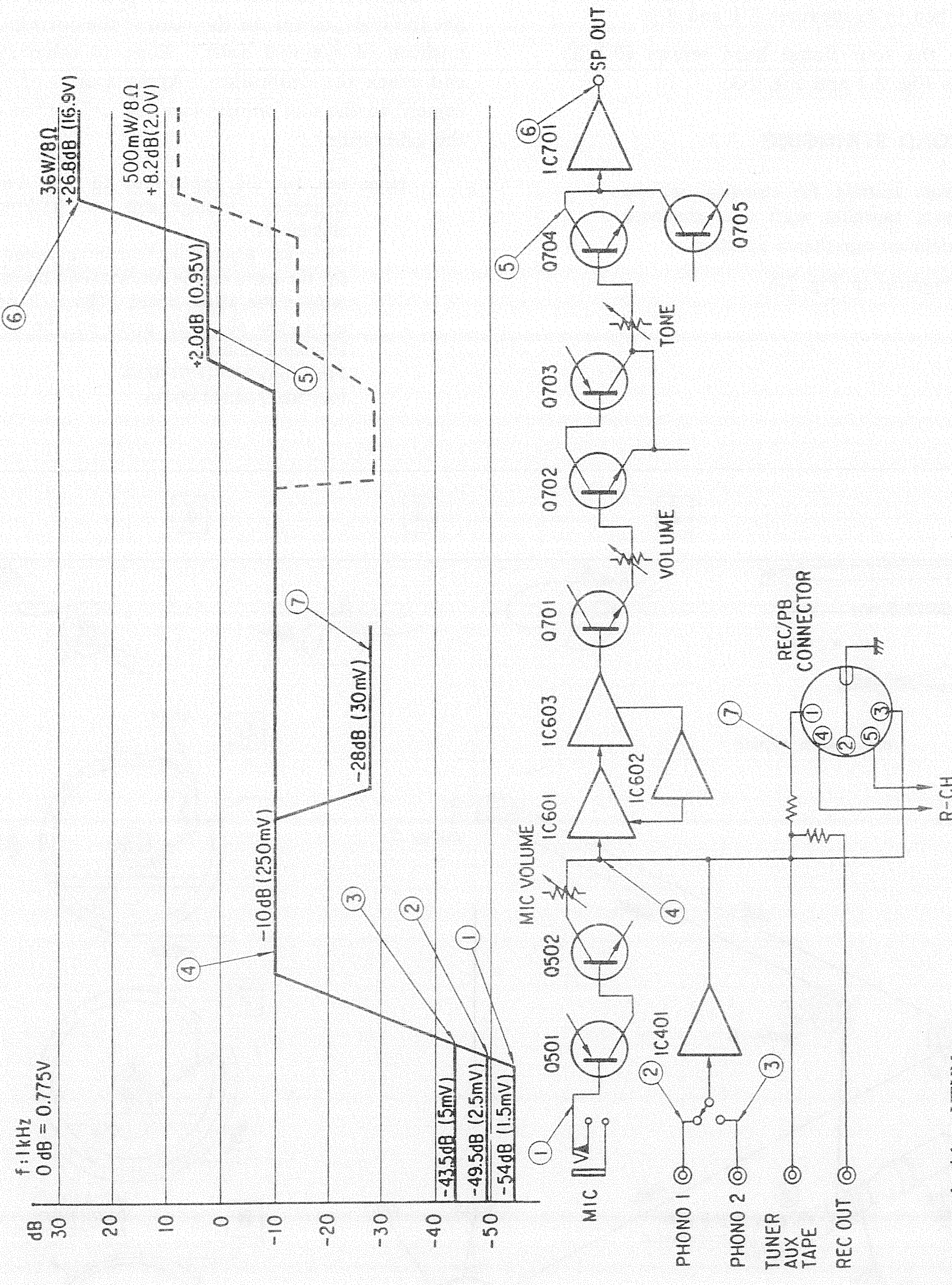
1-2. BLOCK DIAGRAM


FM FRONT-END Board
FM
75 Ω
300 Ω
AM
BALUN
FM RF AMP Q101
FM MIX Q102
FM I-F AMP Q103, Q104
FM OSC UNIT
A-M MIX Q1401
A-M I-F AMP Q1402, Q1403
A-M DET D1402
AGC
A-M OSC Q1404
SQ DECODER Board
MIC
MIC AMP Q501, Q502
S6 MIC MIX
REGU
Q601
PHONO 1
PHONO 2
EQ AMP
IC401
S1 FUNCTION
S2 TAPE MONITOR-1
S3 TAPE MONITOR-2
FM
AM
AUX
R-CH
REC OUT 1
TAPE 1
PHASE SHIFTER
IC601
SWITCH Board
①
③
④
⑤
R-CH
REC OUT 2
TAPE 2
DISCRETE
LF
LB
REC OUT
LF
LB
TAPE
LF
LB
MUTING Q908
S1 FUNCTION
MUTING Q909
Tuner B +
SWITCH Board

1-2. BLOCK DIAGRAM


FM FRONT-END Board
A-M FRONT-END/I-F AMP/MPX Board
SWITCH Board
75 Ω
FM
300 Ω
AM
BALUN
FM RF AMP Q101
FM MIX Q102
FM I-F AMP Q103, Q104
FM OSC UNIT
FM I-F AMP
IC201
FM I-F AMP Q201
FM I-F AMP
IC202
FM DET D201, D202
MUTING Q301
EMITTER FOLLOWER Q303
MPX DECODER
IC301
MPX DECODER Q302
S5 MONO
DISCRIMINATOR OUT
MULTIPATH AMP Q1501
METER AMP Q1502
MUTING Q1503~1506
AUDIO AMP Q1601
AUDIO AMP Q1651
LOW PASS FILTER
L
R
FM OUT
AM OUT
A-M MIX Q1401
A-M I-F AMP Q1402, Q1403
A-M DET D1402
AGC
A-M OSC Q1404
SIGNAL MULTIPATH
S12
MULTIPATH
SWITCH Board
S11
MUTING
SQ DECODER Board
SWITCH Board
PREAMP/CONTROL Board
SWITCH Board
PREAMP/CONTROL Board
SWITCH Board
MIC
MIC AMP Q501, Q502
S6 MIC MIX
PHONO 1
PHONO 2
EQ AMP
IC401
S1 FUNCTION
FM
AM
AUX
REC OUT 1
TAPE 1
S3 TAPE MONITOR-2
S2 TAPE MONITOR-1
R-CH
SWITCH Board
R-CH
REGULATOR Q601
PHASE SHIFTER
GAIN CONTROL
IC601
IC603
IC602
LOGIC
R-CH
S7 SYSTEM
S4 4-CH TAPE MONITOR
S5 MONO
R-CH
EMITTER FOLLOWER Q701
REMOTE CONTROL JACK
EMITTER FOLLOWER Q751
S8 LOUDNESS
MASTER VOLUME
LEVEL CONTROL
FLAT AMP Q702, Q703
TONE AMP Q704
TONE CONTROL
TONE CONTROL
MASTER VOLUME
LEVEL CONTROL
FLAT AMP Q752, Q753
TONE AMP Q754
S10 LOW FILTER
S9 HIGH FILTER
MUTING Q705
MUTING Q755
REC OUT 2
TAPE 2
DISCRETE
LF
LB
REC OUT
LF
LB
TAPE
LF
LB
MUTING Q908
S1 FUNCTION
MUTING Q909
Tuner B +
SWITCH Board
MUTING Q906, 907
RIPPLE FILTER Q901
REGULATOR Q902
REGULATOR Q904
REGULATOR Q905
REGULATOR Q903
POWER SUPPLY (B) Board
Power Amp
B -
B +
POWER SUPPLY (A) Board
HI-POWER SWITCH Board
S16 POWER
AC
POWER AMP
IC701
S15 4CH/2CH
PROTECTION Q706, Q756
POWER AMP
IC751
POWER AMP Board
S13 METER SENS.
METER Board
S14 SPEAKER
A
B
LF SPEAKER
FRONT
HEADPHONE
BACK
A
B
LB SPEAKER
R-CH

1-3. LEVEL DIAGRAM


f: 1kHz
0 dB = 0.775V
dB
30
20
10
0
-10
-20
-30
-40
-50
36W/8Ω
+26.8dB (16.9V)
500mW/8Ω
+8.2dB(2.0V)
+2.0dB (0.95V)
-10dB (250mV)
-28dB (30mV)
-43.5dB (5mV)
-49.5dB (2.5mV)
-54dB (1.5mV)
①
②
③
④
⑤
⑥
⑦
MIC
PHONO 1
PHONO 2
TUNER
AUX
TAPE
REC OUT
Q501
Q502
IC401
MIC VOLUME
IC601
IC602
IC603
Q701
VOLUME
Q702
Q703
TONE
Q704
Q705
IC701
SP OUT
REC/PB CONNECTOR
R-CH

Note: Signal voltages are measured with ac VTVM and expressed in dB referred to 0.775 V, 1 kHz.

SECTION 2
DISASSEMBLY AND REPLACEMENT

2-1. WOODEN CASE REMOVAL

Remove four screws from both sides of the set and lift up the wooden case.

2-2. BOTTOM PLATE REMOVAL

Remove the nine screws shown in Fig. 2-1.

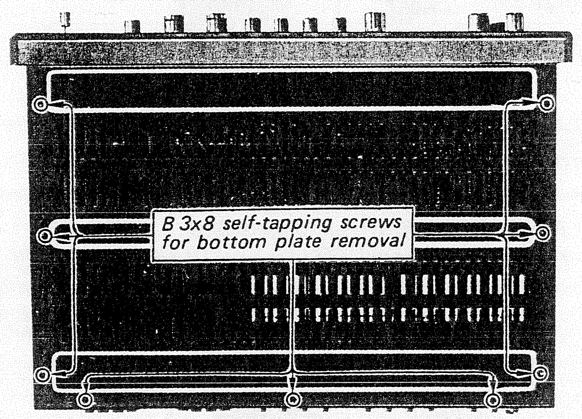

B 3x8 self-tapping screws for bottom plate removal

Fig. 2-1. Bottom plate removal

2-3. FRONT PANEL REMOVAL

1. Remove all knobs from the front panel (but leave the pushbuttons). (The tuning knob has a set screw.)
2. Remove the six self-tapping screws (B 3×6) shown in Fig. 2-2 and Fig. 2-3.

2-4. DIAL GLASS REMOVAL

1. Remove the front panel as described in Procedure 2-3.
2. Remove the six screws (B 4×6) shown in Fig. 2-4.

2-5. FRONT SUBCHASSIS REMOVAL

1. Remove the wooden case, the bottom plate, and the front panel as described in Procedures 2-1, 2-2, and 2-3.
2. Remove the dial cord.
3. Remove the six flange head screws (P 3×8) shown in Fig. 2-2 and Fig. 2-3.
4. Remove the sixteen screws and the three hex nuts shown in Fig. 2-5.
5. If a complete separation of the front subchassis is necessary, remove the wirings connecting the front subchassis with other parts of the set.

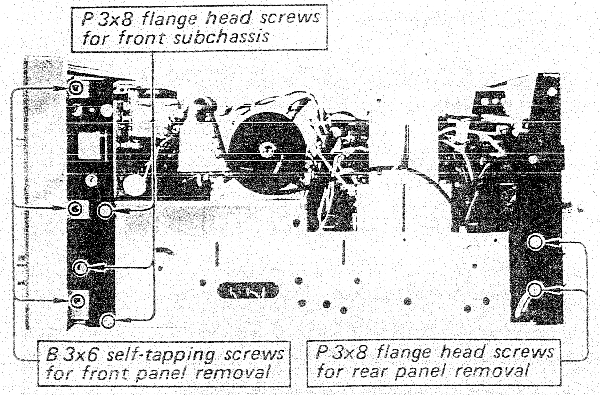

P 3x8 flange head screws for front subchassis
B 3x6 self-tapping screws for front panel removal
P 3x8 flange head screws for rear panel removal

Fig. 2-2. Front panel, front subchassis and rear panel removal (1)

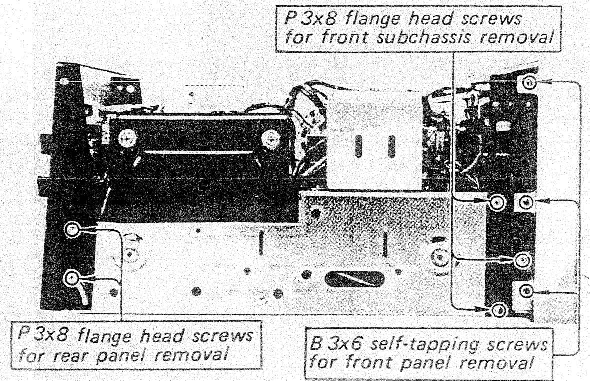

P 3x8 flange head screws for front subchassis removal
P 3x8 flange head screws for rear panel removal
B 3x6 self-tapping screws for front panel removal

Fig. 2-3. Front panel, front subchassis and rear panel removal (2)

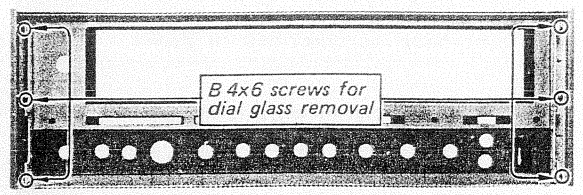

B 4x6 screws for dial glass removal

Fig. 2-4. Dial glass removal

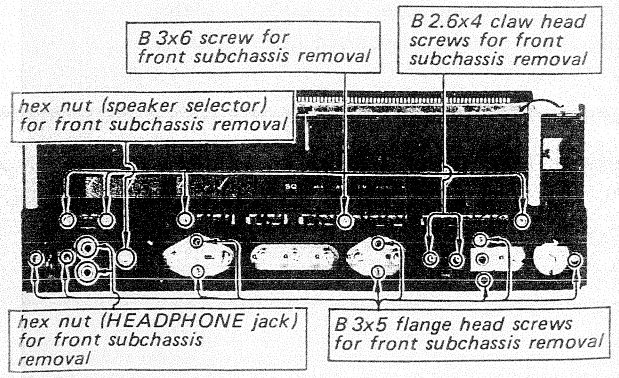

B 3x6 screw for front subchassis removal
B 2.6x4 claw head screws for front subchassis removal
hex nut (speaker selector) for front subchassis removal
hex nut (HEADPHONE jack) for front subchassis removal
B 3x5 flange head screws for front subchassis removal

Fig. 2-5. Front subchassis removal

SECTION 2
DISASSEMBLY AND REPLACEMENT

2-1. WOODEN CASE REMOVAL

Remove four screws from both sides of the set and lift up the wooden case.

2-2. BOTTOM PLATE REMOVAL

Remove the nine screws shown in Fig. 2-1.

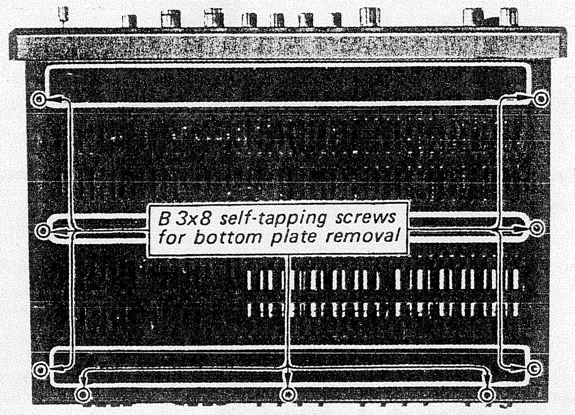

B 3x8 self-tapping screws for bottom plate removal

Fig. 2-1. Bottom plate removal

2-3. FRONT PANEL REMOVAL

1. Remove all knobs from the front panel (but leave the pushbuttons). (The tuning knob has a set screw.)
2. Remove the six self-tapping screws (B 3x6) shown in Fig. 2-2 and Fig. 2-3.

2-4. DIAL GLASS REMOVAL

1. Remove the front panel as described in Procedure 2-3.
2. Remove the six screws (B 4x6) shown in Fig. 2-4.

2-5. FRONT SUBCHASSIS REMOVAL

1. Remove the wooden case, the bottom plate, and the front panel as described in Procedures 2-1, 2-2, and 2-3.
2. Remove the dial cord.
3. Remove the six flange head screws (P 3x8) shown in Fig. 2-2 and Fig. 2-3.
4. Remove the sixteen screws and the three hex nuts shown in Fig. 2-5.
5. If a complete separation of the front subchassis is necessary, remove the wirings connecting the front subchassis with other parts of the set.

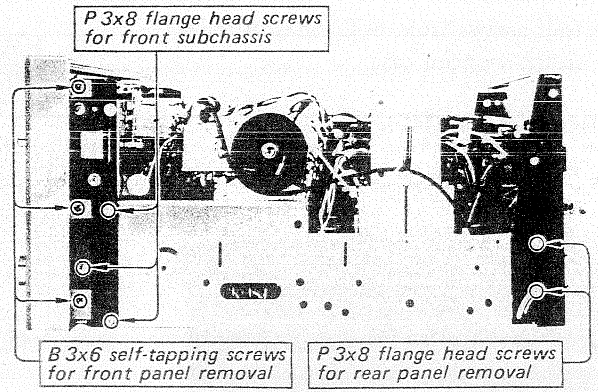

P 3x8 flange head screws for front subchassis
B 3x6 self-tapping screws for front panel removal
P 3x8 flange head screws for rear panel removal

Fig. 2-2. Front panel, front subchassis and rear panel removal (1)

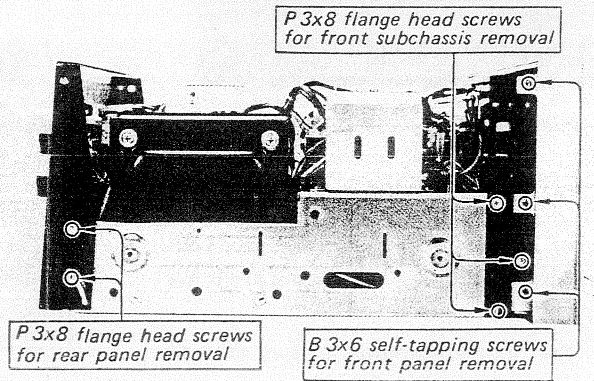

P 3x8 flange head screws for front subchassis removal
P 3x8 flange head screws for rear panel removal
B 3x6 self-tapping screws for front panel removal

Fig. 2-3. Front panel, front subchassis and rear panel removal (2)

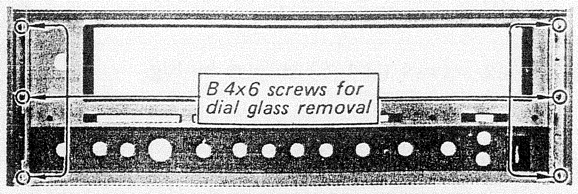

B 4x6 screws for dial glass removal

Fig. 2-4. Dial glass removal

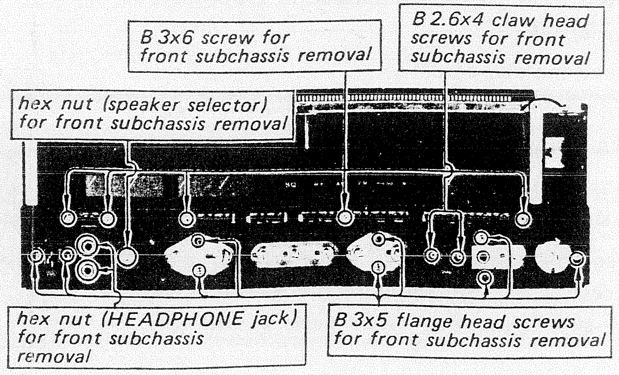

B 3x6 screw for front subchassis removal
B 2.6x4 claw head screws for front subchassis removal
hex nut (speaker selector) for front subchassis removal
hex nut (HEADPHONE jack) for front subchassis removal
B 3x5 flange head screws for front subchassis removal

Fig. 2-5. Front subchassis removal

2-6. REAR PANEL REMOVAL

1. Remove the wooden case and the bottom plate as described in Procedures 2-1 and 2-2.
2. Remove the four flange head screws (P 3x8) shown in Fig. 2-2 and Fig. 2-3.

2-7. DIAL CORD STRINGING

Note: Before starting the stringing, set the tuning capacitor shaft fully clockwise (minimum capacitance position).

See the diagrams in Fig. 2-6.

2-8. MECHANICAL DIAL CALIBRATION

Tune the receiver to your local radio station. Set the dial pointer on the cord at the corresponding position of the dial scale. Tune to other stations and check the calibration. Apply a drop of contact cement to the dial pointer (see Fig. 2-7) at the end of the calibration.

Note: See Sec. 3-6 (pp15~16) for the a-m frequency coverage and a-m tracking alignments.
When any adjustment becomes necessary for the parts on the fm front-end board, replace the whole board. (There is no adjustable electrical parts on the fm front-end board.)
Fm Front-End (FAF-030)
Part No. A-4344-004-A

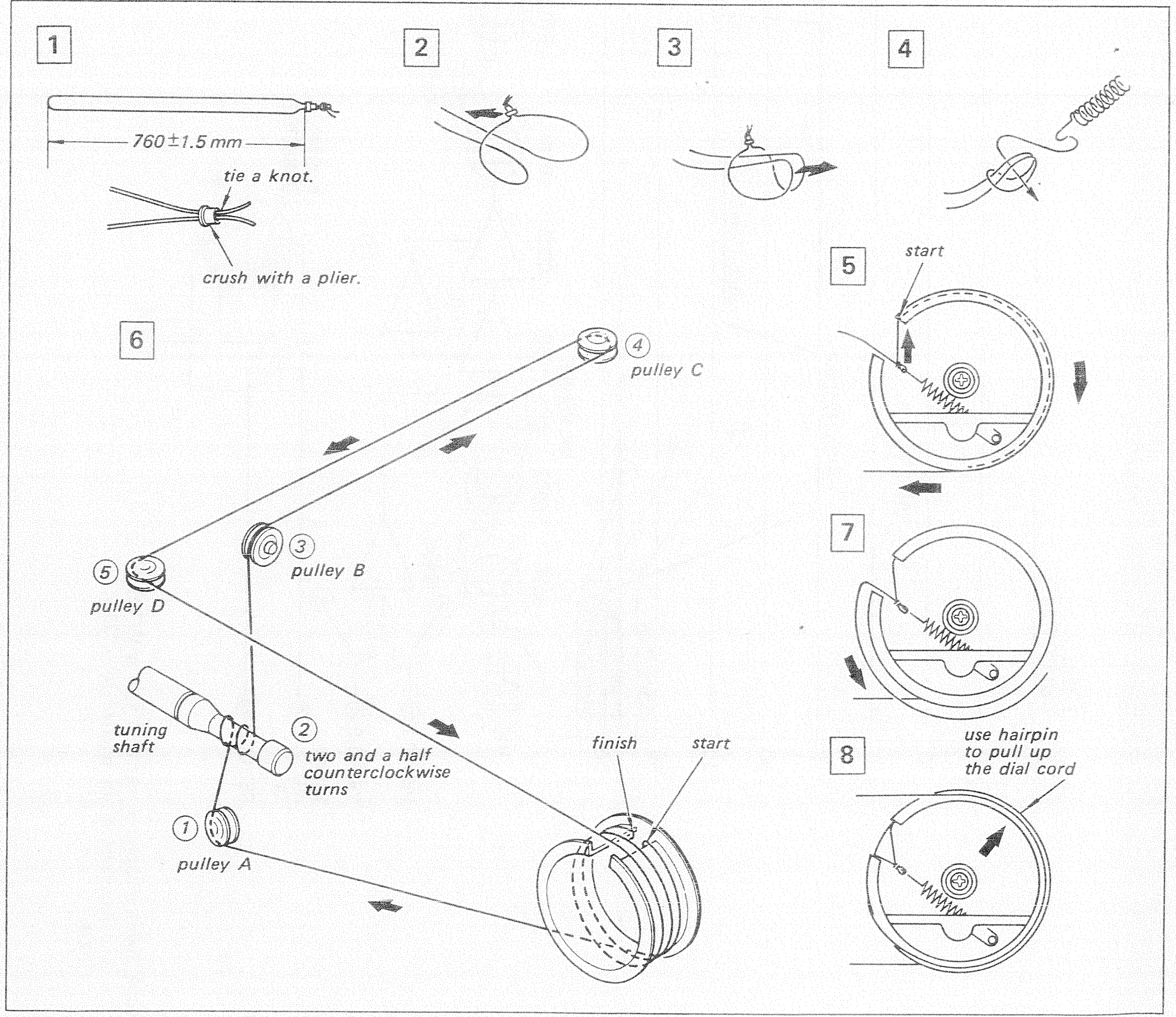

1
760±1.5 mm
tie a knot.
crush with a plier.
2
3
4
5
start
6
④ pulley C
③ pulley B
⑤ pulley D
tuning shaft
② two and a half counterclockwise turns
① pulley A
finish
start
7
8
use hairpin to pull up the dial cord

Fig. 2-6. Dial cord stringing

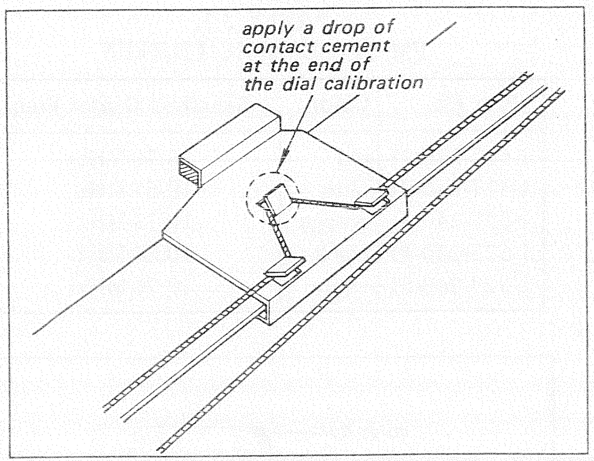

apply a drop of
contact cement
at the end of
the dial calibration

Fig. 2-7. Dial pointer installation

2-9. DIAL SCALE REPLACEMENT

1. Remove the front panel as described in Procedure 2-3.
2. Remove the two screws (B 3x6) shown in Fig. 2-8.
3. Replace the scale. (Place a strip of double-stuck-adhesive tape between the dial scale and the front subchassis at the center.)

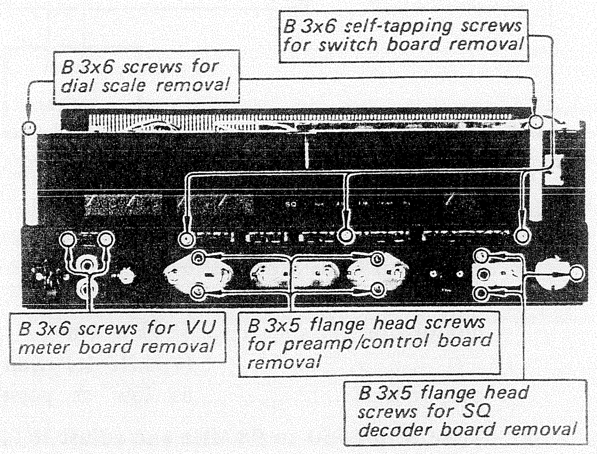

B 3x6 self-tapping screws for switch board removal
B 3x6 screws for dial scale removal
B 3x6 screws for VU meter board removal
B 3x5 flange head screws for preamp/control board removal
B 3x5 flange head screws for SQ decoder board removal

Fig. 2-8. Dial scale and circuit board removal

2-10. VU METER AND SIGNAL METER REPLACEMENT

1. Remove the front subchassis as described in Procedure 2-5.
2. Remove the two screws (B 3x6) securing the VU meter bracket or the signal meter bracket from the back of the front subchassis.
3. Remove the meter held in place with a strip of adhesive tape.
4. Install a new meter.

2-11. LAMP REPLACEMENT

1. Pull out the lamp grommet (white) from the front subchassis. To reach for the VU and signal meter lamps, the function indicator lamp, separate the front subchassis from the chassis as described in Procedure 2-5.
2. Place a new lamp into the grommet and re-install the grommet to the front subchassis.

2-12. CIRCUIT BOARD REMOVAL

Preparation:

Remove the front panel (see Procedure 2-3) and, also, the bottom plate (see Procedure 2-2) for SQ decoder, control, switch, VU meter, and power supply (B) board removals.

A-m Front-End/I-f Amp/MPX Board Removal

1. Remove the five self-tapping screws (B 3x6) securing the board to the chassis.
2. Remove the screw (PSW 3x8) securing the bar-antenna holder to the board.

Power Supply Board (A) Removal

Remove the four screws (PSW 4x8) securing the board to the two electrolytic capacitors.

Power Amplifier Board Removal

1. Remove the four screws (PSW 3x8) shown in Fig. 2-9 and lift up the heat sink assembly.
2. Remove the two screws (B 3x6) securing each power amplifier board to the heat sink assembly.
3. Remove the two screws (B 3x6) securing each power IC to the heat sink.

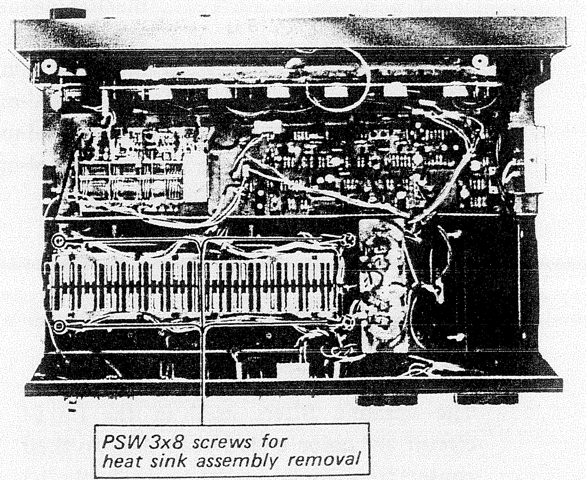

PSW 3x8 screws for heat sink assembly removal

Fig. 2-9. Heat sink removal

HI-POWER Switch Board Removal

1. Remove the rear panel.
2. Remove the two claw head screws (B 2.6x4) securing the HI-POWER switch to the rear panel.
3. Remove the four nylon rivets securing the DISCRETE INPUT jack board to the rear panel.

SQ Decoder Board Removal

1. Remove the three flange head screws (B 3x5) shown in Fig. 2-8.
2. Remove the two self-tapping screws (B 3x6) securing the board to the chassis from the bottom.

Preamp/Control Board Removal

Remove the four flange head screws (B 3x5) shown in Fig. 2-8.

Switch Board Removal

1. Remove SQ decoder board.
2. Remove the three screws (B 3x6) shown in Fig. 2-8.
3. Remove the three self-tapping screws (B 3x6) securing the board to the chassis from the bottom.

VU Meter Board Removal

1. Remove the two flange head screws (B 3x6) shown in Fig. 2-8.
2. Remove the self-tapping screw (B 3x6) securing the meter board to the chassis from the bottom.

Power Supply Board (B) Removal

Remove the three self-tapping screws (B 3x6) securing the board to the chassis from the bottom.

2-13. CHASSIS LAYOUT

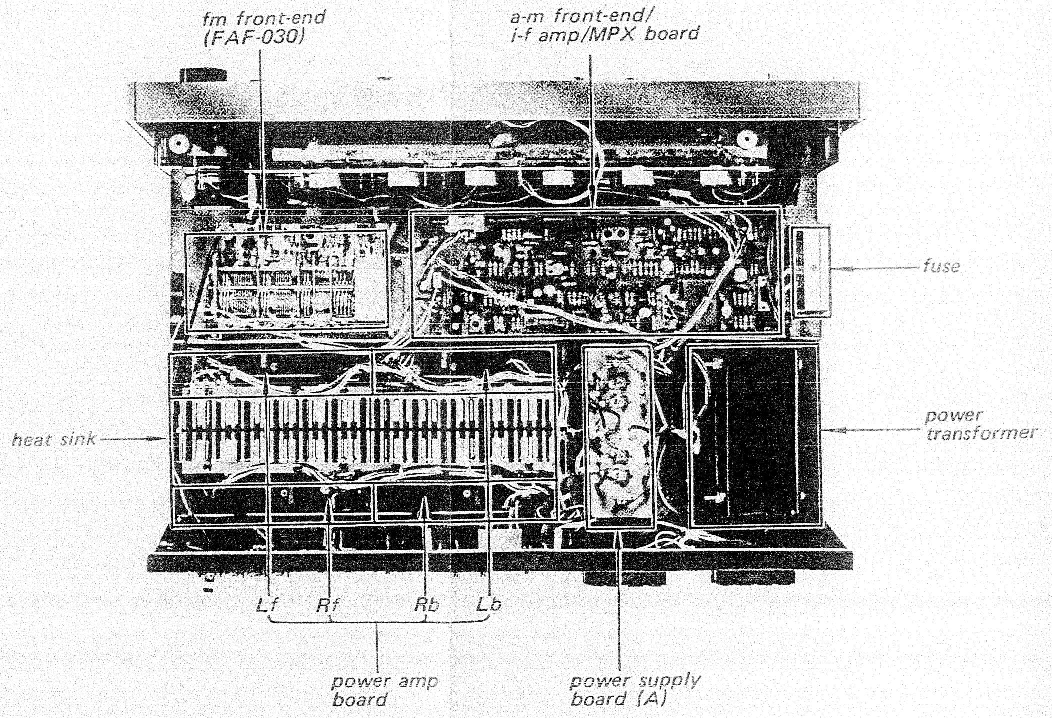

fm front-end
(FAF-030)
a-m front-end/
i-f amp/MPX board
fuse
heat sink
power transformer
Lf
Rf
Rb
Lb
power amp board
power supply board (A)

Fig. 2-10. Chassis layout (1) – top view –

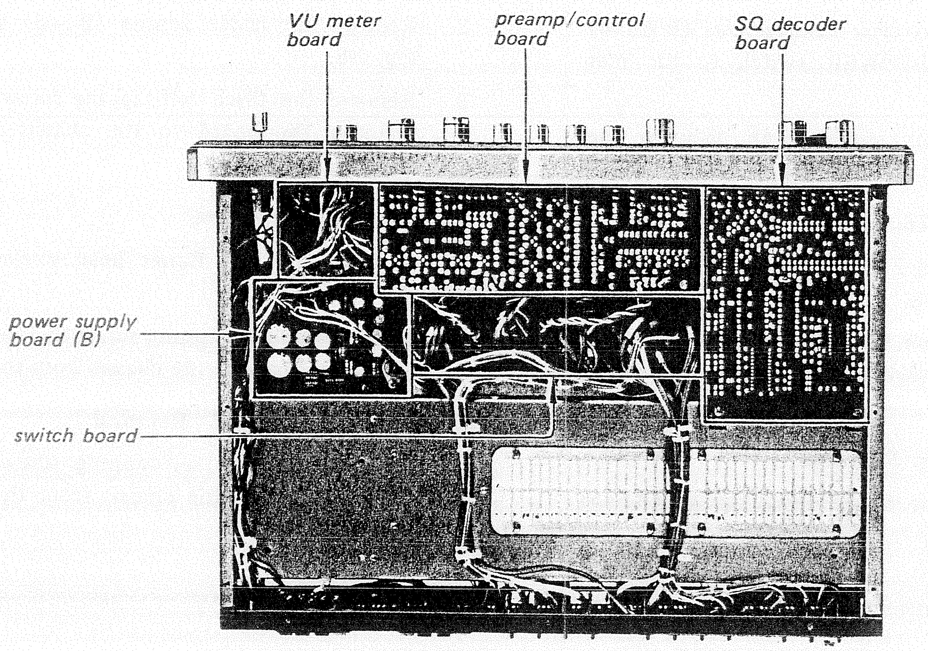


Fig. 2-11. Chassis layout (2) – bottom view –

SECTION 3
ADJUSTMENT AND ALIGNMENT

TEST EQUIPMENT REQUIRED

1. Fm Signal Generator (fm SG)
2. Fm Stereo Signal Generator (fm stereo SG)
3. A-m Signal Generator (a-m SG)
4. Ac VTVM
5. Oscilloscope
6. Null Meter
7. SQ Checker (SONY SQ CHECKER Model 0005*)
8. Attenuator
9. Loop Antenna
10. Frequency Counter

* available from the nearest Sony Factory Service Center

SWITCH AND CONTROL POSITION

of SQR-8750 during the adjustment and alignment procedures (unless otherwise indicated).

FUNCTION SW	FM
MONITOR SW	
2CH TAPE 1	OFF
2CH TAPE 2	OFF
4CH TAPE	OFF
MONO SW	OFF
LOUDNESS SW	OFF
HIGH FILTER SW	OFF
LOW FILTER SW	OFF
MUTING SW	OFF
MULTIPATH SW	OFF
METER SENS SW	OFF
SYSTEM SW	2CH
MIC MIXING SW	OFF
MASTER VOLUME	minimum
LEVEL ADJUST	
Lf	mechanical-mid
Rf	mechanical-mid
Lb	mechanical-mid
Rb	mechanical-mid
TONE TREBLE	mechanical-mid
TONE BASS	mechanical-mid
SPEAKER SW	A
HI-POWER SW	4CH

3-1. FM I-F ALIGNMENT

CAUTION

The ceramic filters used in the fm i-f circuit are color coded according to their center frequencies as shown in Table 3-1 and Fig. 3-1. Be sure to use a correct ceramic filter for a replacement.

TABLE 3-1.
FM I-F CERAMIC FILTERS

Part No.	Color	Specified Center Freq.
1-527-240-11	red	10.70 MHz
1-527-240-21	blue	10.67 MHz
1-527-240-31	orange	10.73 MHz
1-527-240-41	black	10.64 MHz
1-527-240-51	white	10.76 MHz

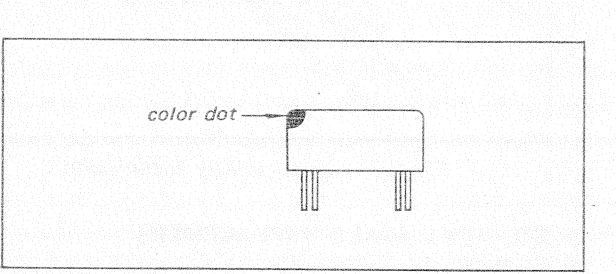


Fig. 3-1. Color dot on ceramic filter

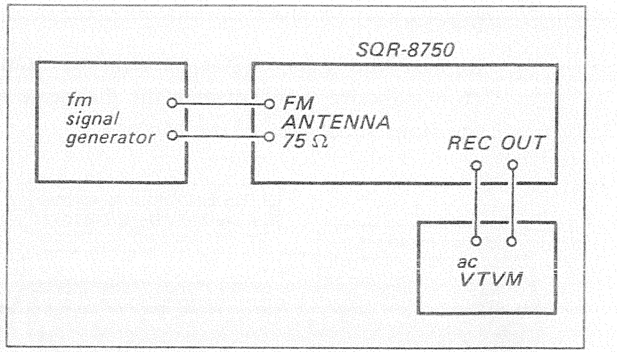


Fig. 3-2. Fm i-f alignment setup

1. Fm Signal Generator Setting:
   carrier frequency .... 98 MHz
   modulation .... 400 Hz, 100 %
   (75 kHz deviation)
   output level .... as low as possible
2. Tune SQR-8750 to 98 MHz and adjust IFT101 (see Fig. 3-3) for a maximum output level.

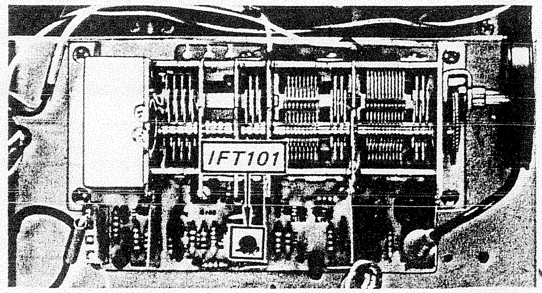


Fig. 3-3. Adjustment parts location

3-2. FM DISCRIMINATOR ALIGNMENT

1. Disconnect R253 from the a-m front-end/i-f amp/MPX board, and connect the null meter in place of R253 as shown in Fig. 3-4.
2. Adjust the secondary side of the discri. trans., IFT201 (see Fig. 3-4), so that the null meter reads zero.
3. After completing the adjustment, remount R253 on the circuit board.

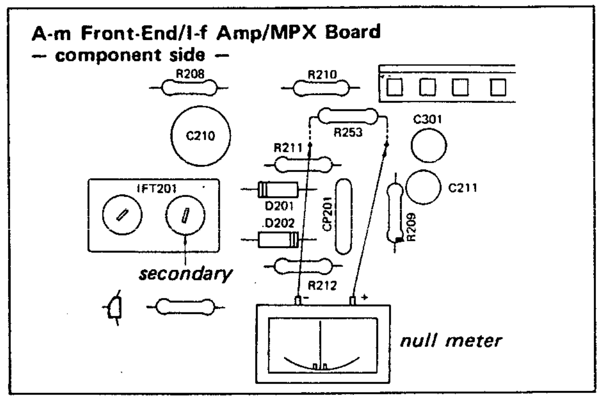

A-m Front-End/I-f Amp/MPX Board
— component side —
R208
R210
C301
C210
R211
R253
C211
IFT201
D201
D202
CP201
R209
secondary
R212
+
null meter

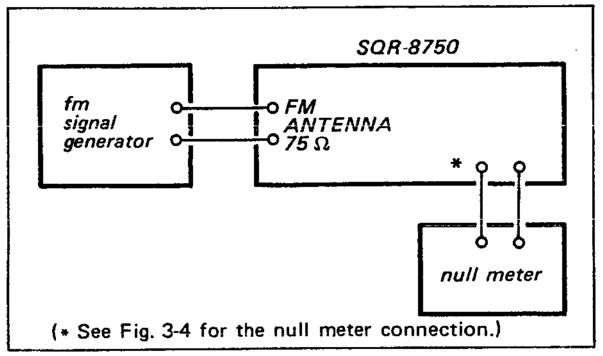
Fig. 3-4. Fm discriminator alignment setup

3-3. FM FREQUENCY COVERAGE AND TRACKING ALIGNMENT

Note: When any adjustment becomes necessary for the parts on the fm front-end board, replace the whole board. (There is no adjustable electrical parts on the fm front-end board.)
Fm Front-End (FAF-030)
Part No. A-4344-004-A

3-4. FM MUTING ADJUSTMENT

1. Fm Signal Generator Setting:
   carrier frequency .... 98 MHz
   modulation .... 400 Hz, 100 %
   (75 kHz deviation)
   output level .... 60 dB (1,000 μV)
2. Connect the nul meter as shown in Fig. 3-4.
3. Turn on the MUTING switch of SQR-8750, and tune SQR-8750 to 98 MHz.
4. Turn the core of RV1501 (see Fig. 3-10 on page 16) fully counterclockwise.
5. Adjust RV1502 (see Fig. 3-10 on page 16) so that the needle of the null meter deflects symmetrically about the center (zero position) when detuning the SQR-8750 to higher or lower than the reference carrier frequency (98 MHz).


SQR-8750
fm
signal
generator
FM
ANTENNA
75 Ω
*
null meter

(* See Fig. 3-4 for the null meter connection.)

Fig. 3-5. Muting adjustment setup

3-5. FM STEREO SEPARATION ADJUSTMENT

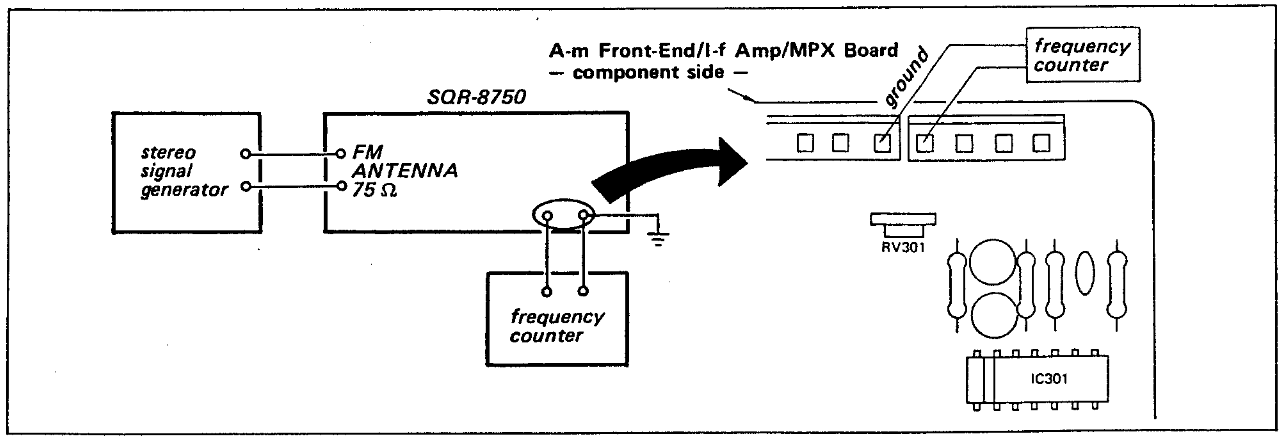

A-m Front-End/I-f Amp/MPX Board
— component side —
ground
frequency
counter
SQR-8750
stereo
signal
generator
FM
ANTENNA
75 Ω
RV301
frequency
counter
IC301

Fig. 3-6. Fm stereo separation adjustment setup (1)

1. Stereo Signal Generator Setting:
   carrier frequency .... 98 MHz
   audio modulation (400 Hz) .. 67.5 kHz (90 %) }*
   pilot modulation (19 kHz).... 7.5 kHz (10 %) }
   output level .... 60 dB (1,000 μV)
   * The total modulation is 100 % (75 kHz deviation).

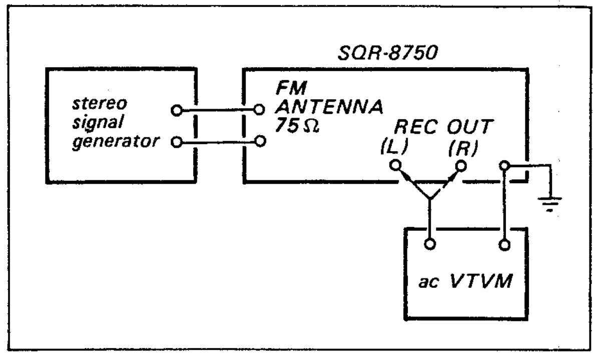

SQR-8750
stereo
signal
generator
FM
ANTENNA
75 Ω
REC OUT
(L)
(R)
ac VTVM

Fig. 3-7. Fm stereo separation adjustment setup (2)

2. Tune SQR-8750 to 98 MHz, and adjust RV301 (see Fig. 3-6) so that the frequency counter reads 19 kHz ± 30 Hz.
3. Disconnect the frequency counter and connect the ac VTVM as shown in Fig. 3-7.
4. Set L-CH output of SQR-8750 on the ac VTVM to 0 dB.
5. Switch the stereo signal generator selector to R-CH, and adjust RV1601 (see Fig. 3-10 on page 16) for a maximum stereo separation.
6. Set R-CH output of SQR-8750 on the ac VTVM to 0 dB.
7. Switch the stereo signal generator selector to L-CH, and adjust RV1601 (see Fig. 3-9) for a maximum stereo separation.
8. Readjust RV1601 so that the difference of the cross-talk levels between R-CH→L-CH and L-CH→R-CH becomes minimum.

3-6. OUTPUT LEVEL ADJUSTMENT

1. Fm Signal Generator Setting:
   carrier frequency .... 98 MHz
   modulation....................... 400 Hz, 100 %
   (75 kHz deviation)
   output level .... 60 dB (1,000 μV)
2. Tune SQR-8750 to 98 MHz.
3. Adjust RV1602 (L) and RV1603 (R) (see Fig. 3-10 on page 16) so that the output levels at L-CH REC OUT and R-CH REC OUT terminals, respectively, become -1 dB.

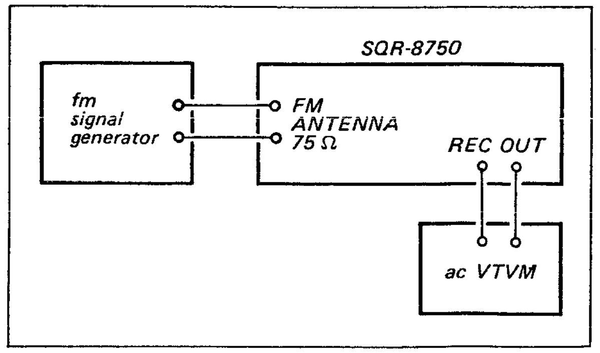

SQR-8750
fm
signal
generator
FM
ANTENNA
75 Ω
REC OUT
ac VTVM

Fig. 3-8. Output level adjustment setup

3-7. A-M FREQUENCY COVERAGE AND TRACKING ALIGNMENT

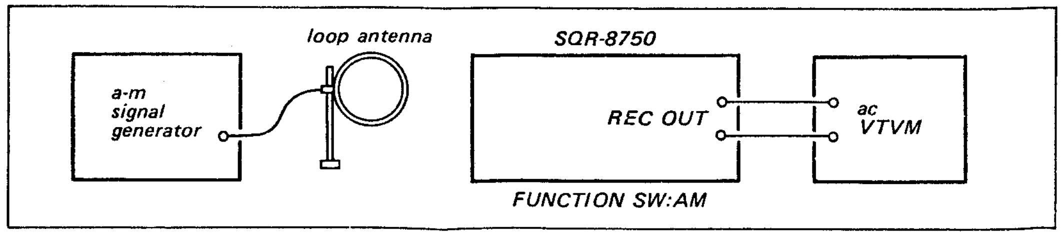

loop antenna
SQR-8750
a-m
signal
generator
REC OUT
ac
VTVM
FUNCTION SW:AM

Fig. 3-9. A-m frequency coverage and tracking alignment setup

Follow the steps in TABLE 3-2 and TABLE 3-3.

1. Stereo Signal Generator Setting:
   carrier frequency .... 98 MHz
   audio modulation (400 Hz) .. 67.5 kHz (90 %) }*
   pilot modulation (19 kHz).... 7.5 kHz (10 %) }
   output level .... 60 dB (1,000μV)

   * The total modulation is 100 % (75 kHz deviation).

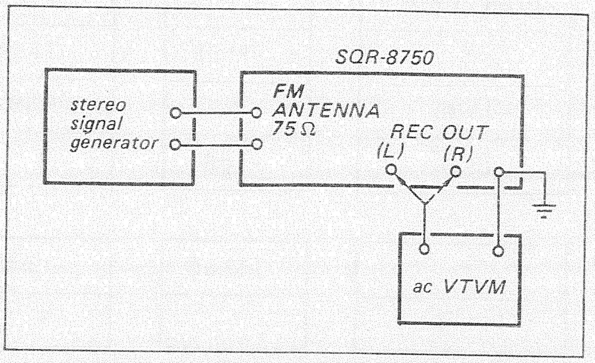

SQR-8750
stereo signal generator
FM ANTENNA 75 Ω
REC OUT
(L)
(R)
ac VTVM

Fig. 3-7. Fm stereo separation adjustment setup (2)

2. Tune SQR-8750 to 98 MHz, and adjust RV301 (see Fig. 3-6) so that the frequency counter reads 19 kHz ± 30 Hz.
3. Disconnect the frequency counter and connect the ac VTVM as shown in Fig. 3-7.
4. Set L-CH output of SQR-8750 on the ac VTVM to 0 dB.
5. Switch the stereo signal generator selector to R-CH, and adjust RV1601 (see Fig. 3-10 on page 16) for a maximum stereo separation.
6. Set R-CH output of SQR-8750 on the ac VTVM to 0 dB.
7. Switch the stereo signal generator selector to L-CH, and adjust RV1601 (see Fig. 3-9) for a maximum stereo separation.
8. Readjust RV1601 so that the difference of the cross-talk levels between R-CH→L-CH and L-CH→R-CH becomes minimum.

3-6. OUTPUT LEVEL ADJUSTMENT

1. Fm Signal Generator Setting:
   carrier frequency .... 98 MHz
   modulation....................... 400 Hz, 100 % (75 kHz deviation)
   output level .... 60 dB (1,000μV)
2. Tune SQR-8750 to 98 MHz.
3. Adjust RV1602 (L) and RV1603 (R) (see Fig. 3-10 on page 16) so that the output levels at L-CH REC OUT and R-CH REC OUT terminals, respectively, become −1 dB.

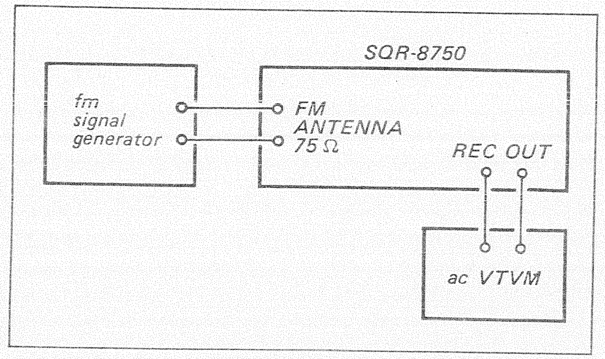

SQR-8750
fm signal generator
FM ANTENNA 75 Ω
REC OUT
ac VTVM

Fig. 3-8. Output level adjustment setup

3-7. A-M FREQUENCY COVERAGE AND TRACKING ALIGNMENT

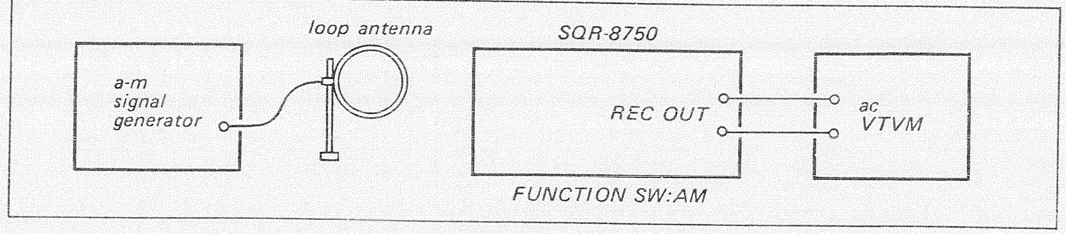

loop antenna
SQR-8750
a-m signal generator
REC OUT
ac VTVM
FUNCTION SW:AM

Fig. 3-9. A-m frequency coverage and tracking alignment setup

Follow the steps in TABLE 3-2 and TABLE 3-3.

TABLE 3-2.

A-M FREQUENCY COVERAGE ALIGNMENT

Step	A-m SG Setting: ① freq., ② mod., ③ output	SQR-8750 Dial Setting	Adjusting Parts	VTVM Reading
1.	① 530 kHz ② 400 Hz, 30 % ③ 60 dB (1,000μV)	530 kHz	OSC coil, L1403 (See Fig. 3-10)	Maximum
2.	① 1,600 kHz ② 400 Hz, 30 % ③ 60 dB (1,000μV)	1,600 kHz	OSC trimmer, CT1402 (See Fig. 3-10)	Maximum

TABLE 3-3.

A-M TRACKING ALIGNMENT

Step	A-m SG Setting: ① freq., ② mod., ③ output	SQR-8750 Dial Setting	Adjusting Parts	VTVM Reading
1.	① 600 kHz ② 400 Hz, 30 % ③ as low as possible	600 kHz	antenna coil, L1401, (See Fig. 3-10)	Maximum
2.	① 1,400 kHz ② 400 Hz, 30 % ③ as low as possible	1,400 kHz	antenna trimmer, CT1401 (See Fig. 3-10)	Maximum

ADJUSTMENT PARTS LOCATION

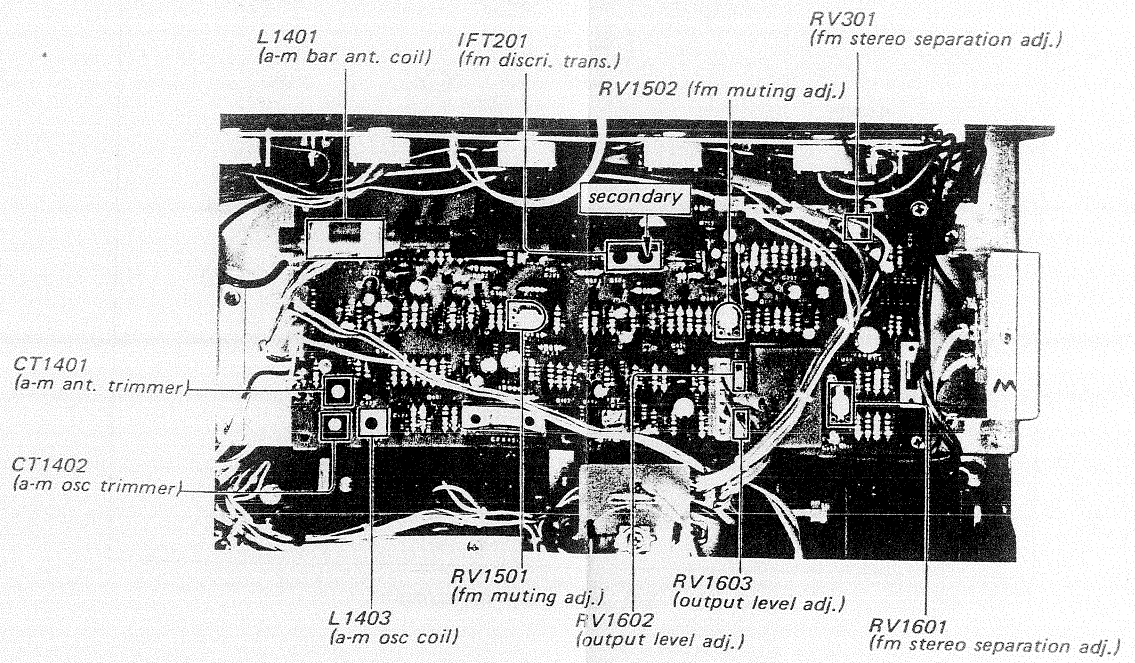

L1401 (a-m bar ant. coil)
IFT201 (fm discri. trans.)
RV301 (fm stereo separation adj.)
RV1502 (fm muting adj.)
secondary
CT1401 (a-m ant. trimmer)
CT1402 (a-m osc trimmer)
RV1501 (fm muting adj.)
RV1603 (output level adj.)
L1403 (a-m osc coil)
RV1602 (output level adj.)
RV1601 (fm stereo separation adj.)

Fig. 3-10. Adjusting parts location

3-8. SQ SEPARATION ADJUSTMENT

Note: To perform this adjustment, separate the SQ decoder board from the chassis (leave the wires connected) and turn the circuit board over so that its component side faces toward you.

Signal Modes of SQ Checker:

L_F = left front
R_F = right front
L_B = left back
R_B = right back
C_F = center front
C_B = center back

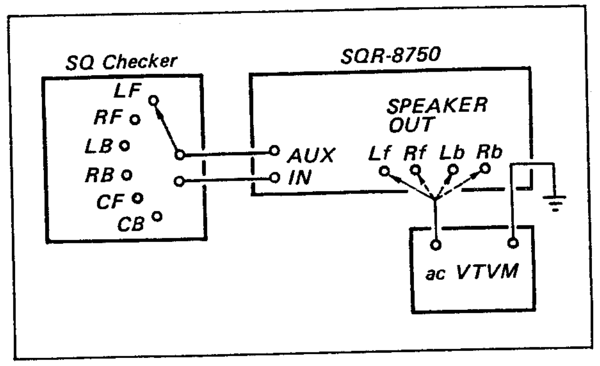

SQ Checker
LF
RF
LB
RB
CF
CB
SQR-8750
AUX
IN
SPEAKER OUT
Lf
Rf
Lb
Rb
ac VTVM

Fig. 3-11. Signal Modes of SQ Checker

1. SQR-8750 Switch Setting:
   FUNCTION switch .... AUX
   SYSTEM switch .... SQ
2. Connect the ac VTVM to Lf speaker terminal.
3. Set the signal mode of the SQ checker to Lf, and feed 2 kHz/–10 dB signal to AUX IN of SQR-8750.
4. Adjust the MASTER VOLUME of SQR-8750 so that the ac VTVM reads 1 watt (+11.2 dB).
5. Adjust RT601 (see Fig. 3-12) so that when the pin shown in Fig. 3-12 is grounded, the output level at Lf speaker terminal drops by 3 dB (from +11.2 dB to +8.2 dB). Make sure that the output level goes back to +11.2 dB when the pin is ungrounded.
6. Check the cross-talk levels at each speaker terminal (Lf, Rf, Lb, and Rb) according to TABLE 3-4.

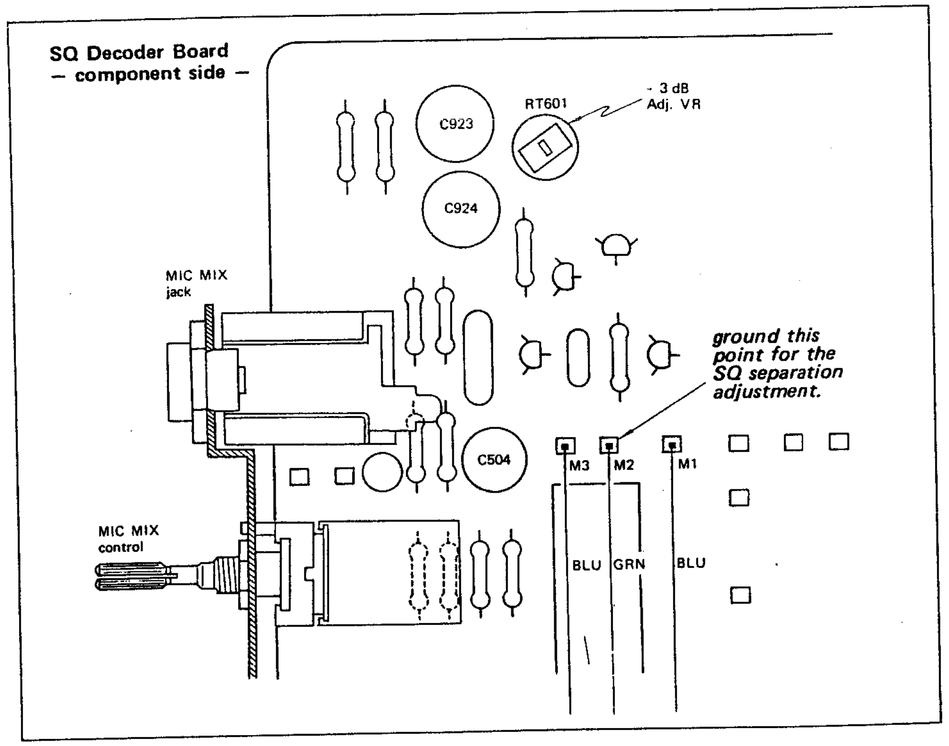

SQ Decoder Board
– component side –
C923
C924
RT601
- 3 dB Adj. VR
MIC MIX jack
ground this point for the SQ separation adjustment.
C504
M3
M2
M1
BLU
GRN
BLU
MIC MIX control

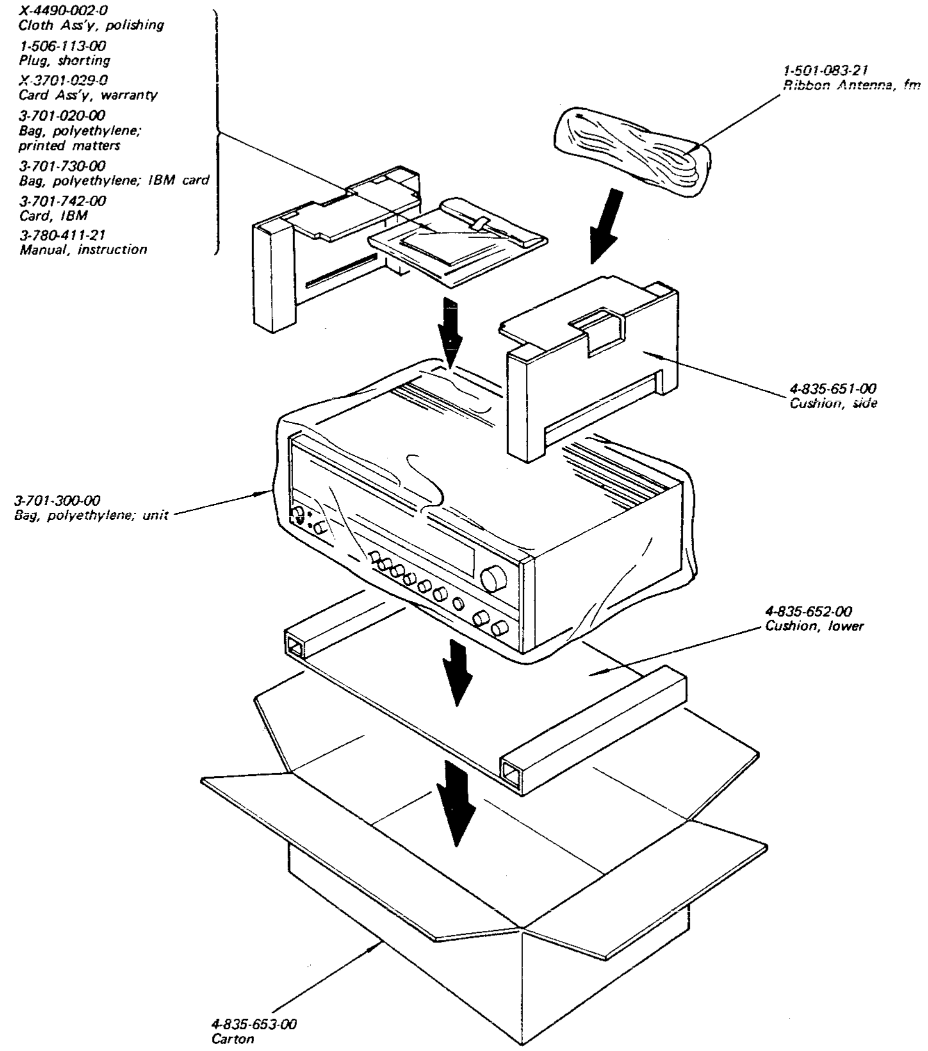
Fig. 3-12. SQ separation adjustment

TABLE 3-4.
SQ CROSS-TALK LEVELS [Relative to the value obtained at (*)]

Signal Mode of SQ Checker \ Speaker Terminal	Lf	Rf	Lb	Rb
L_F	*	-30 dB or less	-11 dB	-11 dB
R_F	-30 dB or less	*	-11 dB	-11 dB
L_B	-13 dB	-13 dB	*	-9 dB
R_B	-13 dB	-13 dB	-9 dB	*
C_F	*	*	-13 dB	-13 dB
C_B	-11 dB	-11 dB	*	*

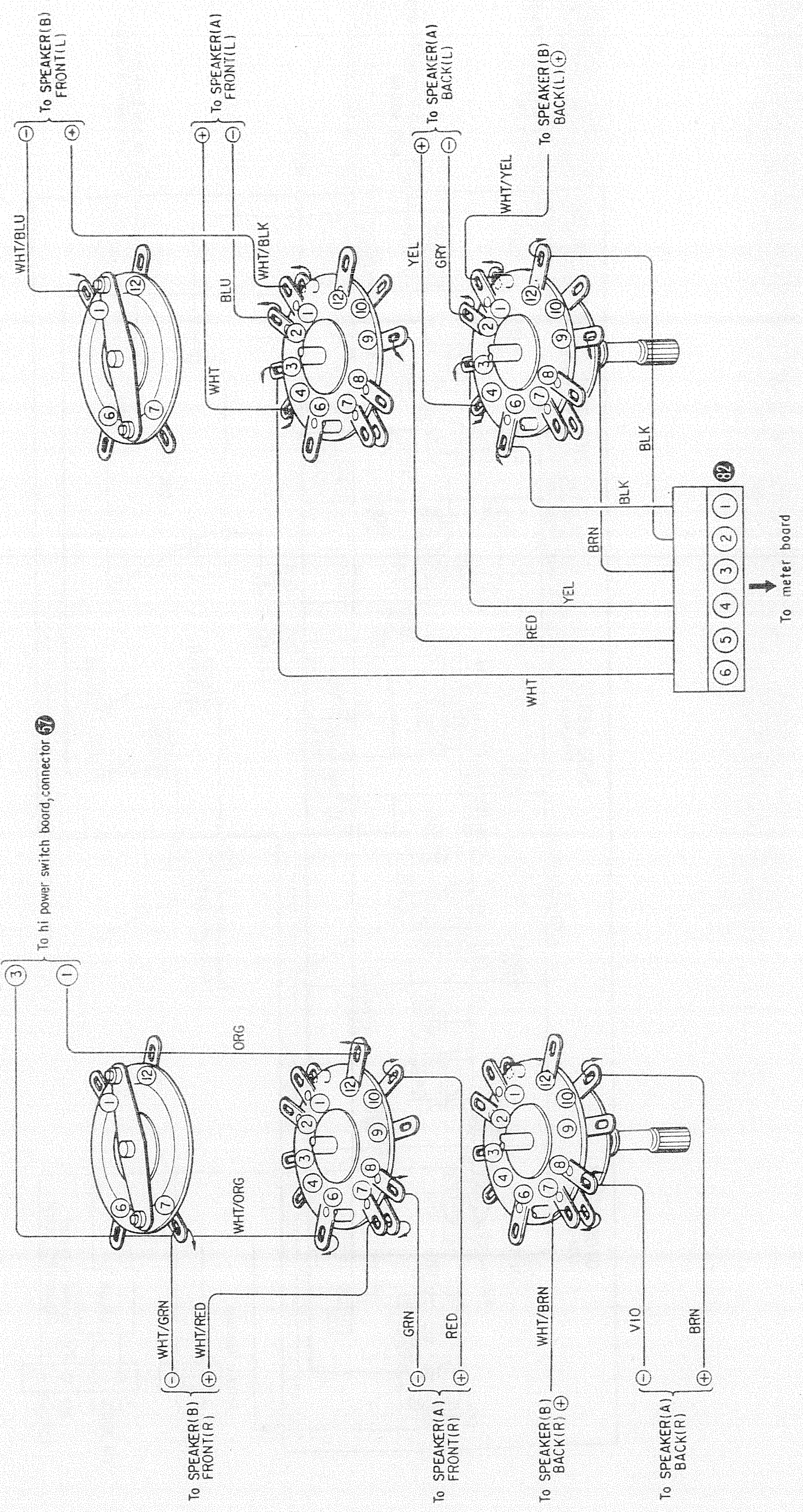
* + 11.2 dB as previously set in step 4.

SECTION 4
REPACKING

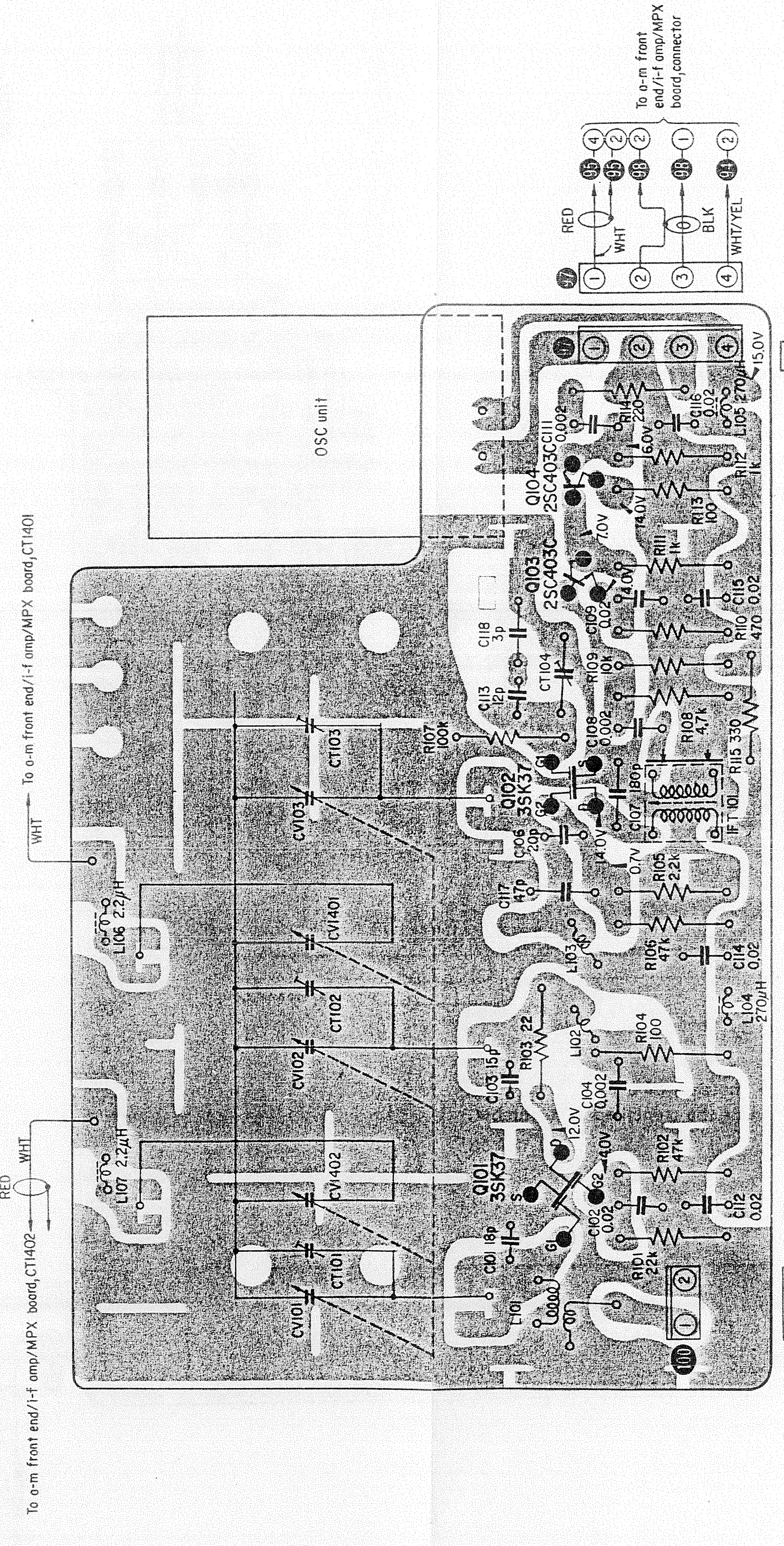

X-4490-002-0
Cloth Ass'y, polishing
1-506-113-00
Plug, shorting
X-3701-029-0
Card Ass'y, warranty
3-701-020-00
Bag, polyethylene; printed matters
3-701-730-00
Bag, polyethylene; IBM card
3-701-742-00
Card, IBM
3-780-411-21
Manual, instruction
1-501-083-21
Ribbon Antenna, fm
4-835-651-00
Cushion, side
3-701-300-00
Bag, polyethylene; unit
4-835-652-00
Cushion, lower
4-835-653-00
Carton

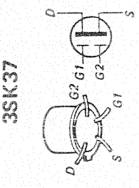
SECTION 5
DIAGRAMS

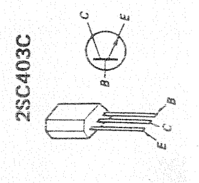
5-1. WIRING DIAGRAMS – Speaker Switch –


To SPEAKER(B) FRONT(L)
To SPEAKER(A) FRONT(L)
To SPEAKER(A) BACK(L)
To SPEAKER(B) BACK(L)(+)
WHT/BLU
BLU
WHT/BLK
WHT
YEL
GRY
WHT/YEL
BLK
BLK
BRN
YEL
RED
WHT
62
To meter board
To hi power switch board, connector 67
ORG
WHT/ORG
WHT/GRN
WHT/RED
GRN
RED
WHT/BRN
VIO
BRN
To SPEAKER(B) FRONT(R)
To SPEAKER(A) FRONT(R)
To SPEAKER(B) BACK(R)(+)
To SPEAKER(A) BACK(R)

5-2. MOUNTING DIAGRAM – Fm Front-End Board –
– Conductor Side –


To o-m front end/i-f amp/MPX board, connector
RED
WHT
BLK
WHT/YEL
OSC unit
11
To o-m front end/i-f amp/MPX board, CT1401
WHT
To o-m front end/i-f amp/MPX board, CT1402
RED
WHT
FM ANTENNA (75Ω)
CLEAR
Q101 3SK37
Q102 3SK37
Q103 2SC403C
Q104 2SC403C
CT101
CT102
CT103
CT104
CV101
CV102
CV103
CV1401
CV1402
IFT101
L101
L102
L103
L104 270μH
L105 270μH
L106 2.2μH
L107 2.2μH
R101 22k
R102 47k
R103 22
R104 100
R105 2.2k
R106 47k
R107 100k
R108 4.7k
R109 10k
R110 470
R111 1k
R112 1k
R113 100
R114 220
R115 330
C101 18p
C102 0.02
C103 15p
C104 0.002
C106 20p
C107 180p
C108 0.002
C109 0.02
C111 0.002
C112 0.02
C113 12p
C114 0.02
C115 0.02
C116 0.02
C117 47p
C118 3p
12.0V
4.0V
0.7V
14.0V
1.0V
6.0V
15.0V
100


3SK37
D
G1
G2
S


2SC403C
B
C
E

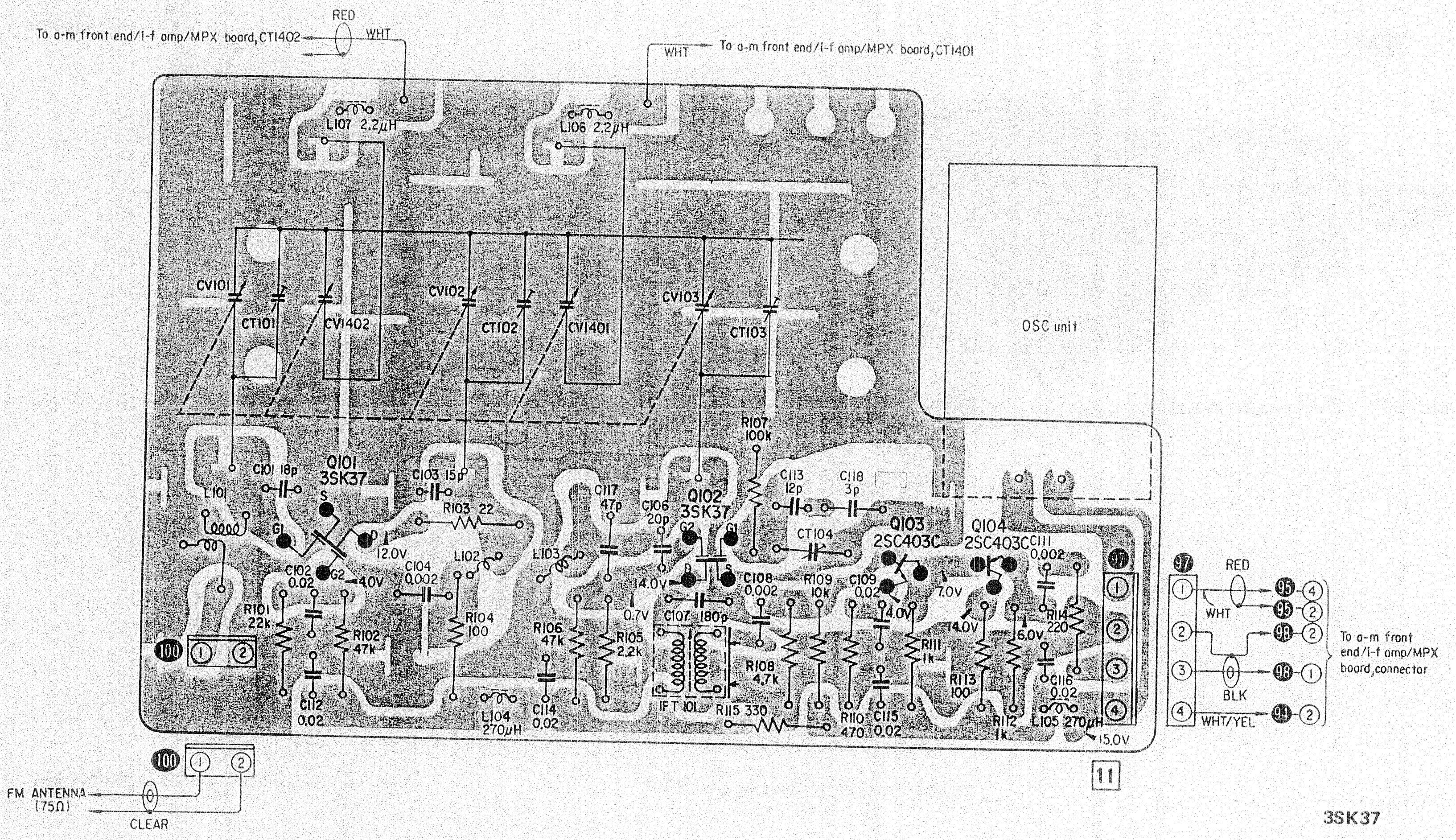
Parts Location

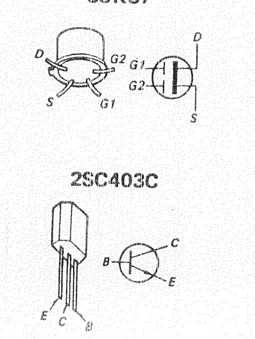
Q	Q101	Q102	Q103	Q104	
ADJ	CT101	CT102	IFT101	CT103	CT104

A bold line with arrows by the side of a coil (or a transformer) indicates the location of the stencilled part number.

5-2. MOUNTING DIAGRAM – Fm Front-End Board –

– Conductor Side –


To a-m front end/i-f amp/MPX board, CT1402
RED
WHT
To a-m front end/i-f amp/MPX board, CT1401
OSC unit
L107 2.2μH
L106 2.2μH
CV101
CT101
CV1402
CV102
CT102
CV1401
CV103
CT103
Q101 3SK37
Q102 3SK37
Q103 2SC403C
Q104 2SC403C
C101 18p
C103 15p
R103 22
C102 0.02
C104 0.002
R101 22k
R102 47k
R104 100
C112 0.02
L104 270μH
C114 0.02
C117 47p
C106 20p
R106 47k
R105 2.2k
C107 180p
IFT101
R115 330
R107 100k
C113 12p
C118 3p
CT104
C108 0.002
R109 10k
C109 0.02
R108 4.7k
R110 470
C115 0.02
R111 1k
R113 100
R112 1k
C111 0.002
R114 220
C116 0.02
L105 270μH
12.0V
4.0V
14.0V
0.7V
7.0V
6.0V
15.0V
L101
L102
L103
FM ANTENNA (75Ω)
CLEAR
100
97
95
98
99
BLK
WHT/YEL
To a-m front end/i-f amp/MPX board, connector
11

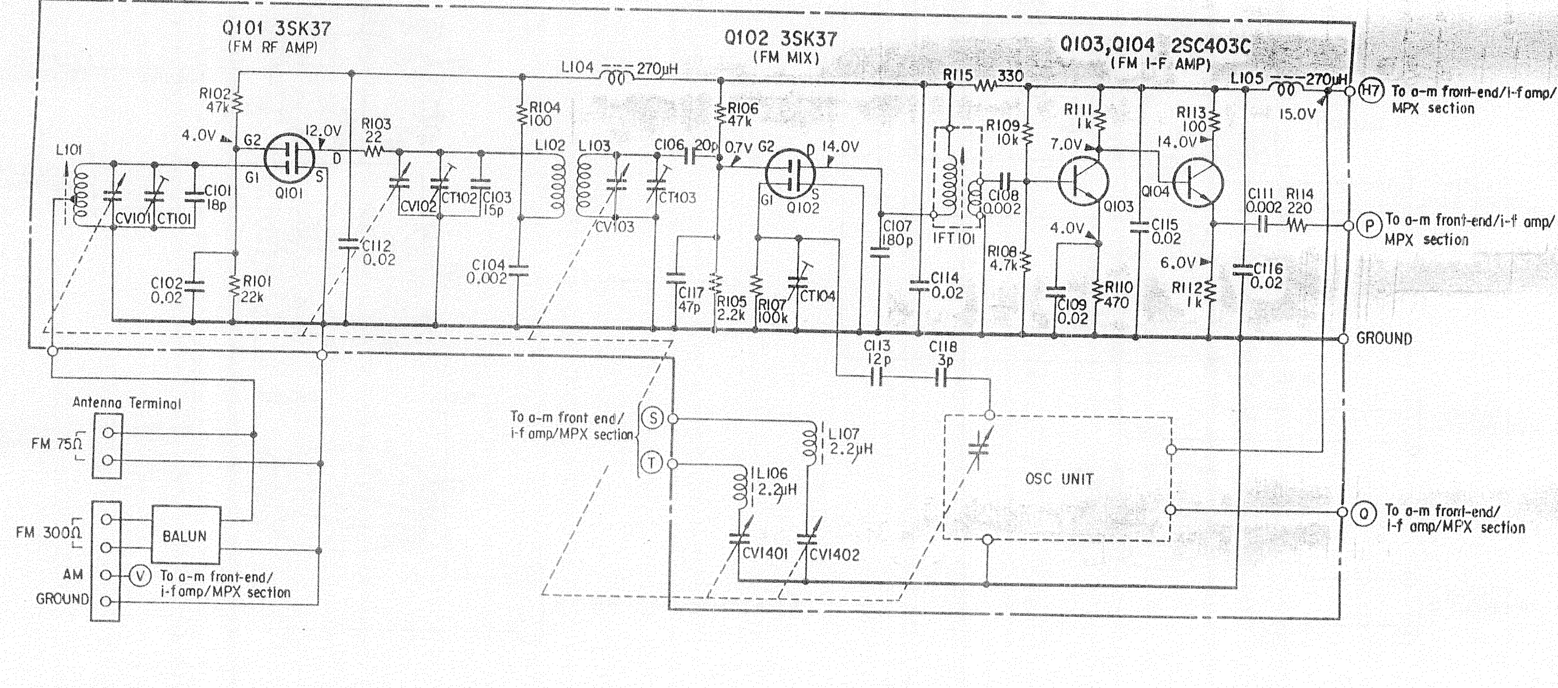

3SK37
D
G2
G1
S
2SC403C
C
B
E

Parts Location

Q	Q101	Q102	Q103	Q104
ADJ	CT101	CT102	CT103	CT104
		IFT101		

A bold line with arrows by the side of a coil (or a transformer) indicates the location of the stencilled part number.

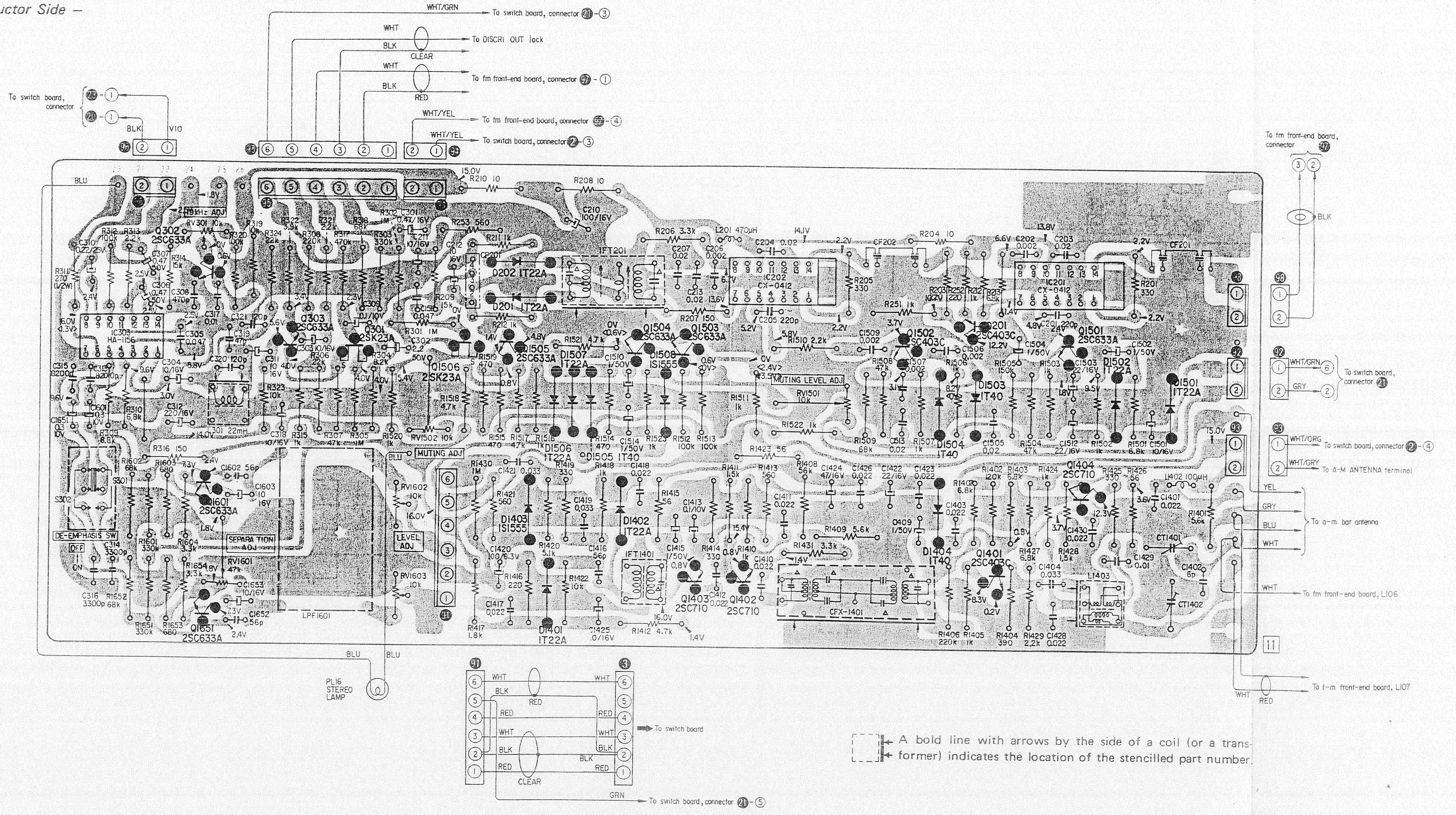
5-3. SCHEMATIC DIAGRAM – Fm Front-End Section –


Q101 3SK37 (FM RF AMP)
Q102 3SK37 (FM MIX)
Q103, Q104 2SC403C (FM I-F AMP)
L104 270μH
L105 270μH
R102 47k
R103 22
R104 100
R106 47k
R115 330
R109 10k
R111 1k
R113 100
C101 18p
CV101
CT101
CV102
CT102
C103 15p
L101
L102
L103
CV103
CT103
C106 20p
C107 180p
IFT101
C108 0.002
C111 0.002
R114 220
C112 0.02
C104 0.002
C102 0.02
R101 22k
C117 47p
R105 2.2k
R107 100k
CT104
C114 0.02
R108 4.7k
C109 0.02
R110 470
C115 0.02
R112 1k
C116 0.02
C113 12p
C118 3p
4.0V
12.0V
0.7V
14.0V
7.0V
6.0V
15.0V
H7 To a-m front-end/i-f amp/MPX section
P To a-m front-end/i-f amp/MPX section
GROUND
O To a-m front-end/i-f amp/MPX section
S
T
To a-m front end/i-f amp/MPX section
L107 2.2μH
L106 2.2μH
CV1401
CV1402
OSC UNIT
Antenna Terminal
FM 75Ω
FM 300Ω
AM
GROUND
BALUN
V To a-m front-end/i-f amp/MPX section

Note:
All resistance values are in ohms. k = 1,000, M = 1,000 k
All capacitance values are in μF except as indicated with p, which means μμF.
All voltages are dc measured with a VOM which has an input impedance of 20 k ohms/volt. No signal in.
Voltage variations may be noted due to normal production tolerances.

5-4. MOUNTING DIAGRAM – A-m Front-End/I-f Amp/MPX Board –

– Conductor Side –

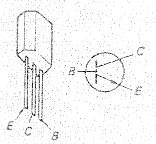

WHT/GRN To switch board, connector ㉑-③
WHT
BLK To DISCRI OUT jack
CLEAR
WHT
BLK To fm front-end board, connector ㊼-①
RED
WHT/YEL To fm front-end board, connector ㊼-④
WHT/YEL To switch board, connector ②-③
To switch board, connector ㉓-① ⑳-①
BLK
V10
⑨⑥ ① ②
⑨⑤ ⑥ ⑤ ④ ③ ② ①
⑨④ ② ①
BLU
19kHz ADJ
Q302 2SC633A
IC303 HA-1156
Q303 2SC633A
Q301 2SK23A
D202 1T22A
D201 1T22A
IFT201
IC202 CX-0412
IC201 CX-0412
Q1505 2SC633A
Q1504 2SC633A
Q1503 2SC633A
Q1502 2SC403C
Q201 2SC403C
Q1501 2SC633A
Q1506 2SK23A
D1507 1T22A
D1508 1S1555
D1503 1T40
D1502 1T22A
D1501 1T22A
MUTING LEVEL ADJ
RV1501 10k
D1506 1T22A
D1505 1T40
D1504 1T40
Q1404 2SC710
Q1601 2SC633A
DE-EMPHASIS SW
OFF
ON
S301
S302
SEPARATION ADJ
RV1601 47k
LPF1601
Q1651 2SC633A
RV1602 10k
LEVEL ADJ
RV1603 10k
D1403 1S1555
D1402 1T22A
D1401 1T22A
IFT1401
Q1403 2SC710
Q1402 2SC710
CFX-1401
D1404 1T40
Q1401 2SC403C
L1403
CT1401
CT1402
L1402 100μH
⑨⑧ ① ②
⑨② WHT/GRN ⑥ GRY ② To switch board, connector ㉑
⑨③ WHT/ORG To switch board, connector ②-④
WHT/GRY To A-M ANTENNA terminal
To fm front-end board, connector ㊼ ③ ②
BLK
YEL
GRY
BLU
WHT
To a-m bar antenna
WHT To fm front-end board, L106
WHT RED To f-m front-end board, L107
BLU
BLU
PL16 STEREO LAMP
⑨① ③
WHT
BLK
RED
WHT
BLK
RED
CLEAR
To switch board
GRN To switch board, connector ㉑-⑤

A bold line with arrows by the side of a coil (or a transformer) indicates the location of the stencilled part number.

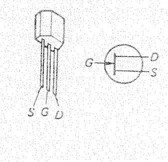
Parts Location

D	D202 D201 D1506 D1507 D1505 D1403 D1402 D1401 D1508 D1504 D1503 D1404 D1502 D1501
Q IC	Q302 IC303 Q1601 Q1651 Q303 Q301 Q1506 Q1505 Q1504 Q1503 Q1403 Q1402 IC202 Q1502 Q201 Q1401 IC201 Q1501 Q1404
A D J	IFT201 IFT1401 CT1401 L1403 CT1402

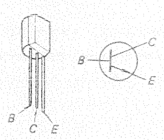
2SC403C
2SC633A



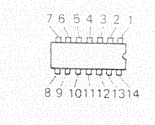
2SK23A



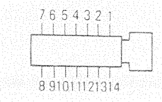
2SC710



HA-1156

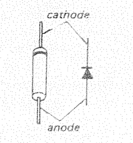

7 6 5 4 3 2 1
8 9 10 11 12 13 14

CX-0412

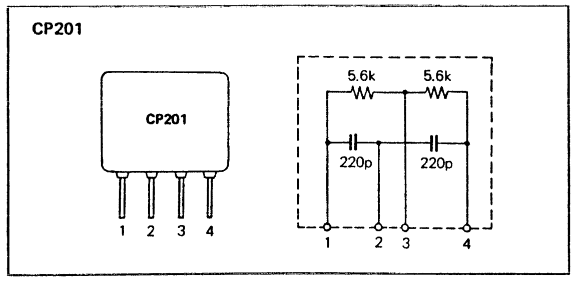

7 6 5 4 3 2 1
8 9 10 11 12 13 14

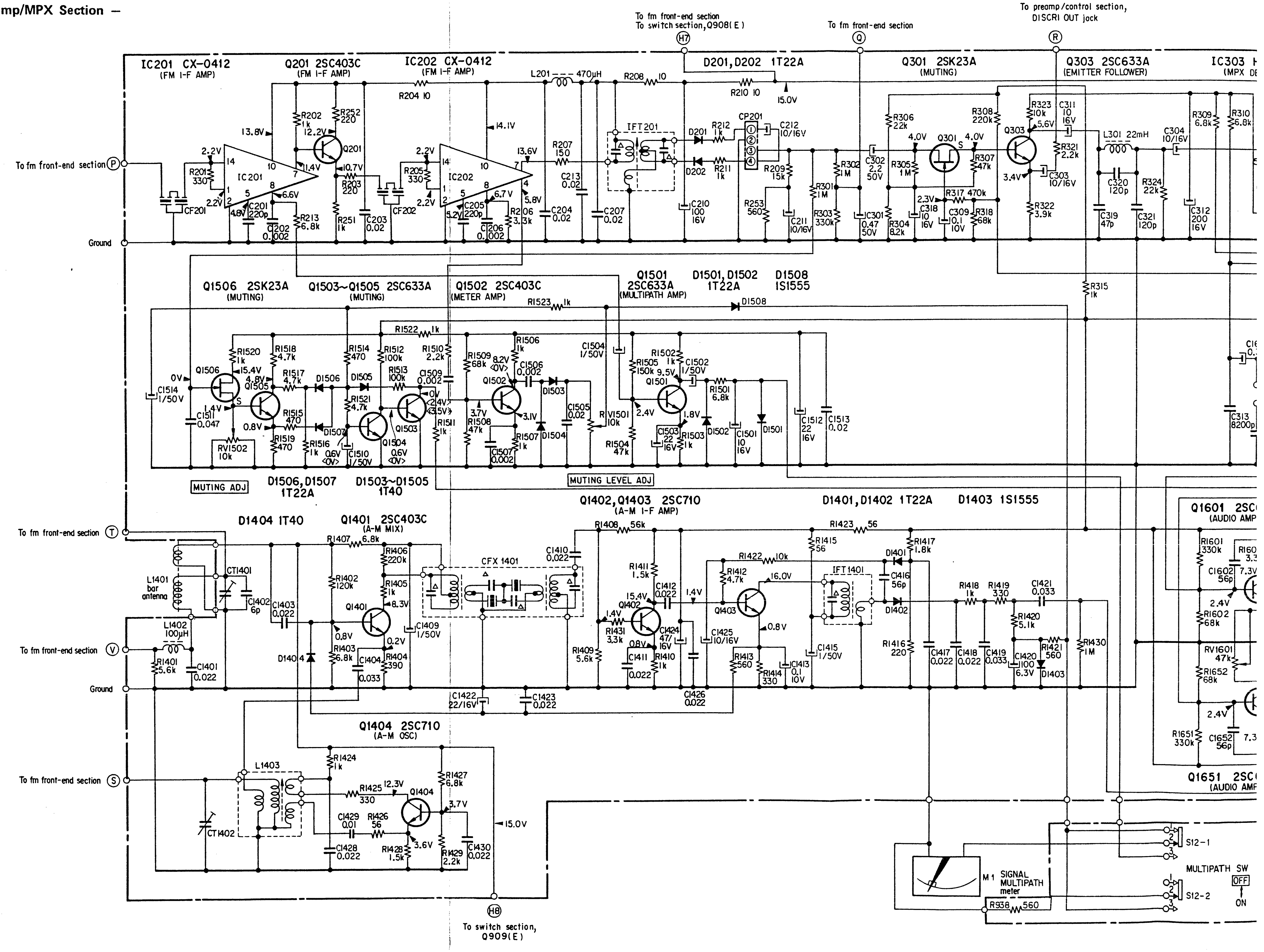
(Top view)

1S1555
1T22A
1T40


cathode
anode

5-5. SCHEMATIC DIAGRAM – A-m Front-End/I-f Amp/MPX Section –


CP201
CP201
5.6k
5.6k
220p
220p
1 2 3 4
1 2 3 4


To fm front-end section
To switch section, Q908(E)
H7
To fm front-end section
Q
To preamp/control section, DISCRI OUT jack
R
IC201 CX-0412 (FM I-F AMP)
Q201 2SC403C (FM I-F AMP)
IC202 CX-0412 (FM I-F AMP)
L201 470μH
R208 10
D201, D202 1T22A
R210 10
15.0V
Q301 2SK23A (MUTING)
Q303 2SC633A (EMITTER FOLLOWER)
IC303 (MPX
IFT201
CP201
L301 22mH
To fm front-end section P
Ground
Q1506 2SK23A (MUTING)
Q1503~Q1505 2SC633A (MUTING)
Q1502 2SC403C (METER AMP)
Q1501 2SC633A (MULTIPATH AMP)
D1501, D1502 1T22A
D1508 1S1555
MUTING ADJ
D1506, D1507 1T22A
D1503~D1505 1T40
MUTING LEVEL ADJ
To fm front-end section T
D1404 1T40
Q1401 2SC403C (A-M MIX)
Q1402, Q1403 2SC710 (A-M I-F AMP)
D1401, D1402 1T22A
D1403 1S1555
Q1601 2SC (AUDIO AMP
L1401 bar antenna
CT1401
CFX 1401
IFT1401
L1402 100μH
To fm front-end section V
Ground
To fm front-end section S
Q1404 2SC710 (A-M OSC)
L1403
CT1402
15.0V
Q1651 2SC (AUDIO AMP
M1 SIGNAL MULTIPATH meter
R936 560
S12-1
MULTIPATH SW
OFF
ON
S12-2
H8
To switch section, Q909(E)

Ref. No.	Description	Position
S5	MONO SW (STEREO-MONO)	STEREO
S11	FM MUTING SW	OFF
S12	FM MULTIPATH SW	OFF
S301, 302		

Note:

All resistance values are in ohms. k = 1,000, M = 1,000k

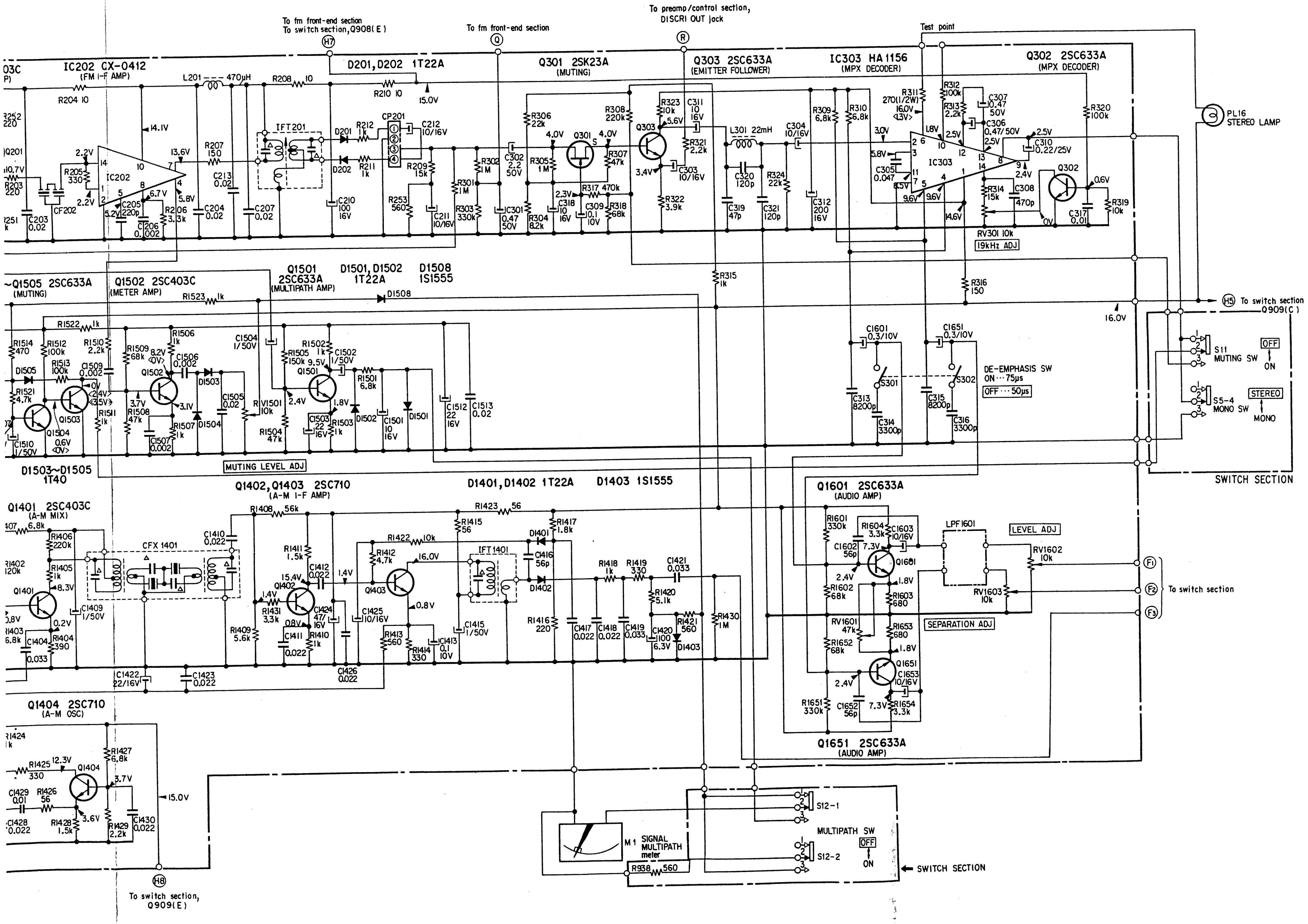
All capacitance values are in μF except as indicated with p, which means μμF.

All voltages are dc measured with a VOM which has an input impedance of 20k ohms/volt. No signal in.

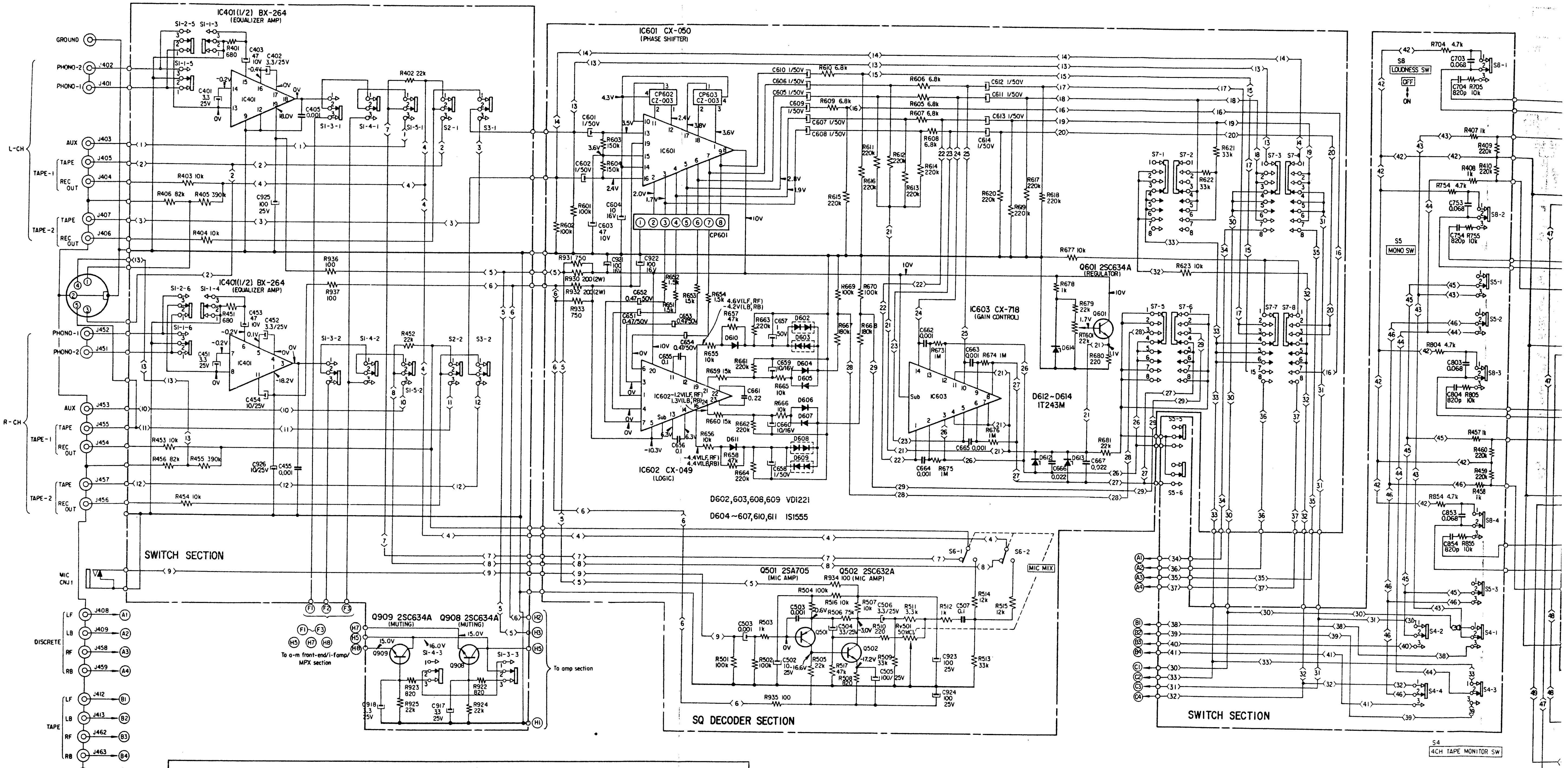
Voltage variations may be noted due to normal production tolerances.

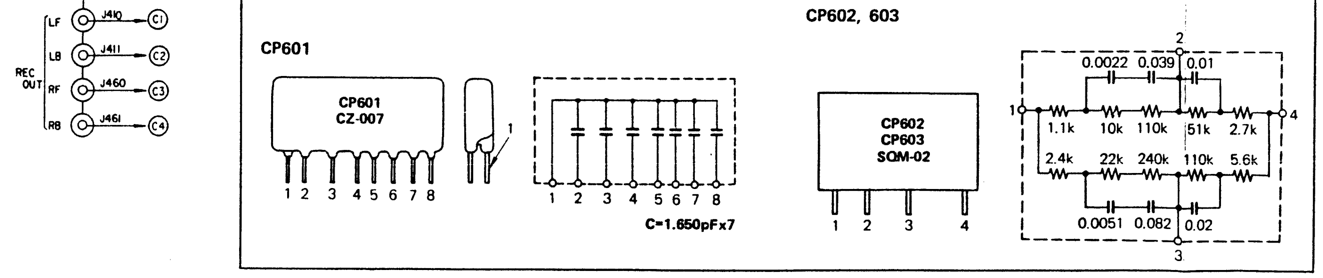
< >: STEREO

≪ ≫: MUTING SW ON


To fm front-end section
To switch section, Q908(E)
To fm front-end section
To preamp/control section, DISCRI OUT jack
Test point
IC202 CX-0412
(FM I-F AMP)
D201, D202 1T22A
Q301 2SK23A
(MUTING)
Q303 2SC633A
(EMITTER FOLLOWER)
IC303 HA1156
(MPX DECODER)
Q302 2SC633A
(MPX DECODER)
PL16 STEREO LAMP
IFT201
CP201
L201 470μH
L301 22mH
RV301 10k
19kHz ADJ
~Q1505 2SC633A
(MUTING)
Q1502 2SC403C
(METER AMP)
Q1501 2SC633A
(MULTIPATH AMP)
D1501, D1502 1T22A
D1508 1S1555
D1503~D1505 1T40
MUTING LEVEL ADJ
RV1501 10k
To switch section Q909(C)
S11 MUTING SW
OFF
ON
S5-4 MONO SW
STEREO
MONO
SWITCH SECTION
DE-EMPHASIS SW
ON ··· 75μs
OFF ··· 50μs
S301
S302
Q1401 2SC403C
(A-M MIX)
Q1402, Q1403 2SC710
(A-M I-F AMP)
D1401, D1402 1T22A
D1403 1S1555
CFX 1401
IFT1401
Q1404 2SC710
(A-M OSC)
Q1601 2SC633A
(AUDIO AMP)
Q1651 2SC633A
(AUDIO AMP)
LPF1601
LEVEL ADJ
RV1602 10k
RV1603 10k
RV1601 47k
SEPARATION ADJ
To switch section
M1 SIGNAL MULTIPATH meter
R938 560
S12-1
S12-2
MULTIPATH SW
OFF
ON
SWITCH SECTION
To switch section, Q909(E)
15.0V
16.0V
14.1V
13.6V

5-6. SCHEMATIC DIAGRAM – Preamp/Control, SQ Decoder, and Switch Sections –


IC401(1/2) BX-264 (EQUALIZER AMP)
IC601 CX-050 (PHASE SHIFTER)
IC602 CX-049 (LOGIC)
IC603 CX-718 (GAIN CONTROL)
Q601 2SC634A (REGULATOR)
D612~D614 IT243M
D602,603,608,609 VD1221
D604~607,610,611 IS1555
Q501 2SA705 (MIC AMP)
Q502 2SC632A
Q909 2SC634A (MUTING)
Q908 2SC634A (MUTING)
To a-m front-end/i-f-amp/MPX section
To amp section
SWITCH SECTION
SQ DECODER SECTION
SWITCH SECTION
GROUND
PHONO-2
PHONO-1
L-CH
R-CH
AUX
TAPE-1
TAPE-2
TAPE
REC OUT
MIC CNJ1
DISCRETE
LF
LB
RF
RB
MONO SW
LOUDNESS SW
OFF
ON
MIC MIX
4CH TAPE MONITOR SW


TAPE
REC OUT
CP601
CP601 CZ-007
1 2 3 4 5 6 7 8
C=1.650pFx7
CP602, 603
CP602 CP603 SQM-02
1 2 3 4
0.0022 0.039 0.01
1.1k 10k 110k 51k 2.7k
2.4k 22k 240k 110k 5.6k
0.0051 0.082 0.02

Ref. No.	Description	Position
S1-1~5	FUNCTION SW (PHONO-1 – PHONO-2 – FM-AM – AUX)	FM
S2	TAPE MONITOR-1 SW (SOURCE - TAPE)	SOURCE
S3	TAPE MONITOR-2 SW (SOURCE - TAPE)	SOURCE
S4	4CH TAPE MONITOR SW (SOURCE - TAPE)	SOURCE
S5	MONO SW (STEREO - MONO)	STEREO
S6	MIC MIXING SW	OFF
S7	SYSTEM SELECTOR SW (2CH – 2→4 – SQ – R-MTX – DISCRETE)	2CH
S8	LOUDNESS	OFF
S9	HIGH FILTER	OFF
S10	LOW FILTER	OFF

Note
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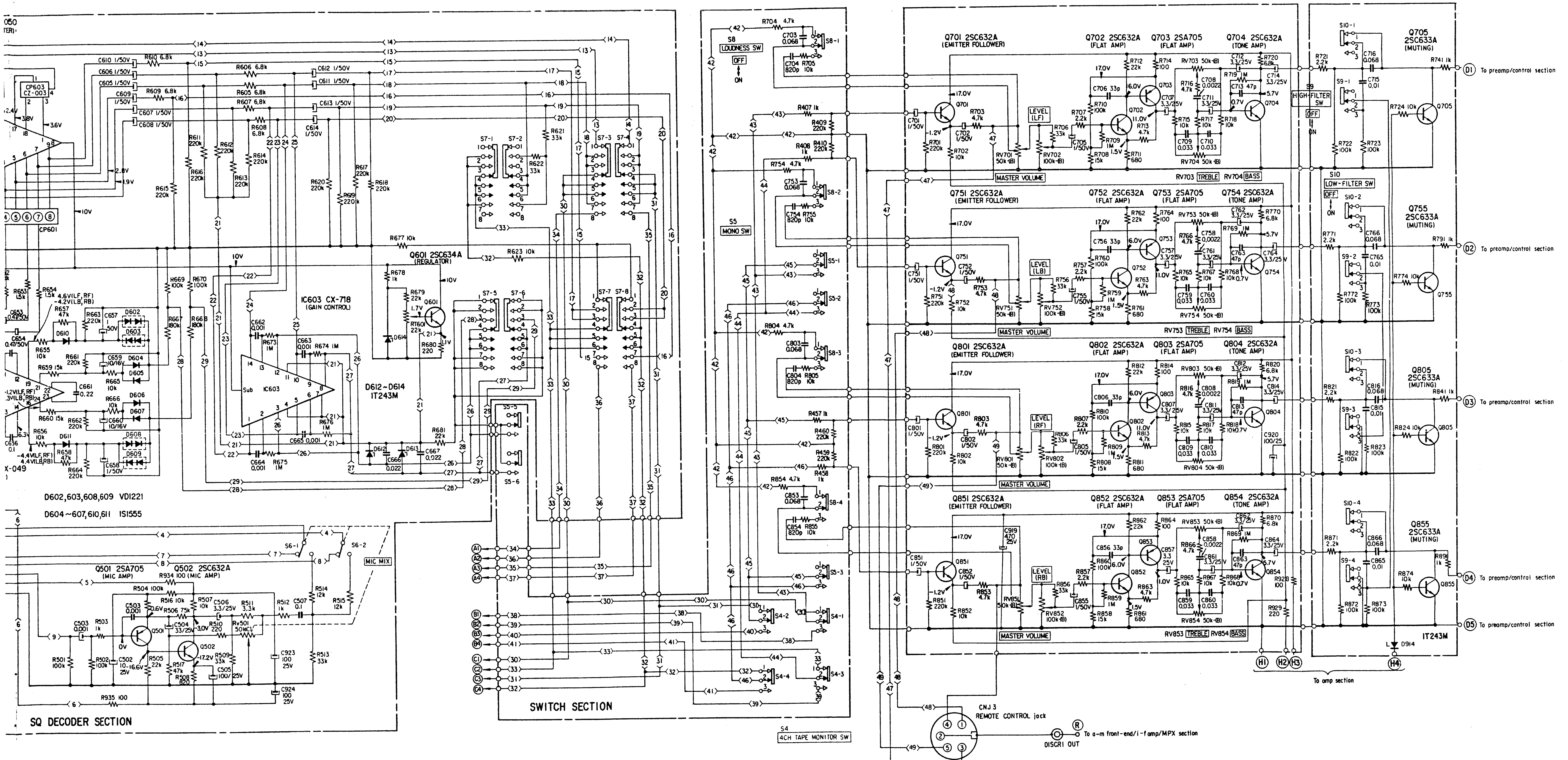
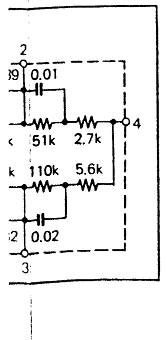
Volt
toler


SQ DECODER SECTION
SWITCH SECTION
IC603 CX-718 (GAIN CONTROL)
Q601 2SC634A (REGULATOR)
D612~D614 IT243M
Q501 2SA705 (MIC AMP)
Q502 2SC632A (MIC AMP)
D602,603,608,609 VD1221
D604~607,610,611 IS1555
MIC MIX
S8 LOUDNESS SW
S5 MONO SW
S4 4CH TAPE MONITOR SW
Q701 2SC632A (EMITTER FOLLOWER)
Q702 2SC632A (FLAT AMP)
Q703 2SA705 (FLAT AMP)
Q704 2SC632A (TONE AMP)
Q751 2SC632A (EMITTER FOLLOWER)
Q752 2SC632A (FLAT AMP)
Q753 2SA705 (FLAT AMP)
Q754 2SC632A (TONE AMP)
Q801 2SC632A (EMITTER FOLLOWER)
Q802 2SC632A (FLAT AMP)
Q803 2SA705 (FLAT AMP)
Q804 2SC632A (TONE AMP)
Q851 2SC632A (EMITTER FOLLOWER)
Q852 2SC632A (FLAT AMP)
Q853 2SA705 (FLAT AMP)
Q854 2SC632A (TONE AMP)
Q705 2SC633A (MUTING)
Q755 2SC633A (MUTING)
Q805 2SC633A (MUTING)
Q855 2SC633A (MUTING)
LEVEL (LF)
LEVEL (LB)
LEVEL (RF)
LEVEL (RB)
MASTER VOLUME
TREBLE
BASS
S9 HIGH-FILTER SW
S10 LOW-FILTER SW
To preamp/control section
To amp section
IT243M
CNJ 3 REMOTE CONTROL jack
DISCRI OUT
To a-m front-end/i-f amp/MPX section


0.01
51k
2.7k
110k
5.6k
0.02

Ref. No.	Description	Position
S1-1~5	FUNCTION SW (PHONO-1 – PHONO-2 – FM–AM – AUX)	FM
S2	TAPE MONITOR-1 SW (SOURCE - TAPE)	SOURCE
S3	TAPE MONITOR-2 SW (SOURCE - TAPE)	SOURCE
S4	4CH TAPE MONITOR SW (SOURCE - TAPE)	SOURCE
S5	MONO SW (STEREO - MONO)	STEREO
S6	MIC MIXING SW	OFF
S7	SYSTEM SELECTOR SW (2CH – 2→4 – SQ – R-MTX – DISCRETE)	2CH
S8	LOUDNESS	OFF
S9	HIGH FILTER	OFF
S10	LOW FILTER	OFF

Note:

All resistance values are in ohms. k = 1,000, M = 1,000 k

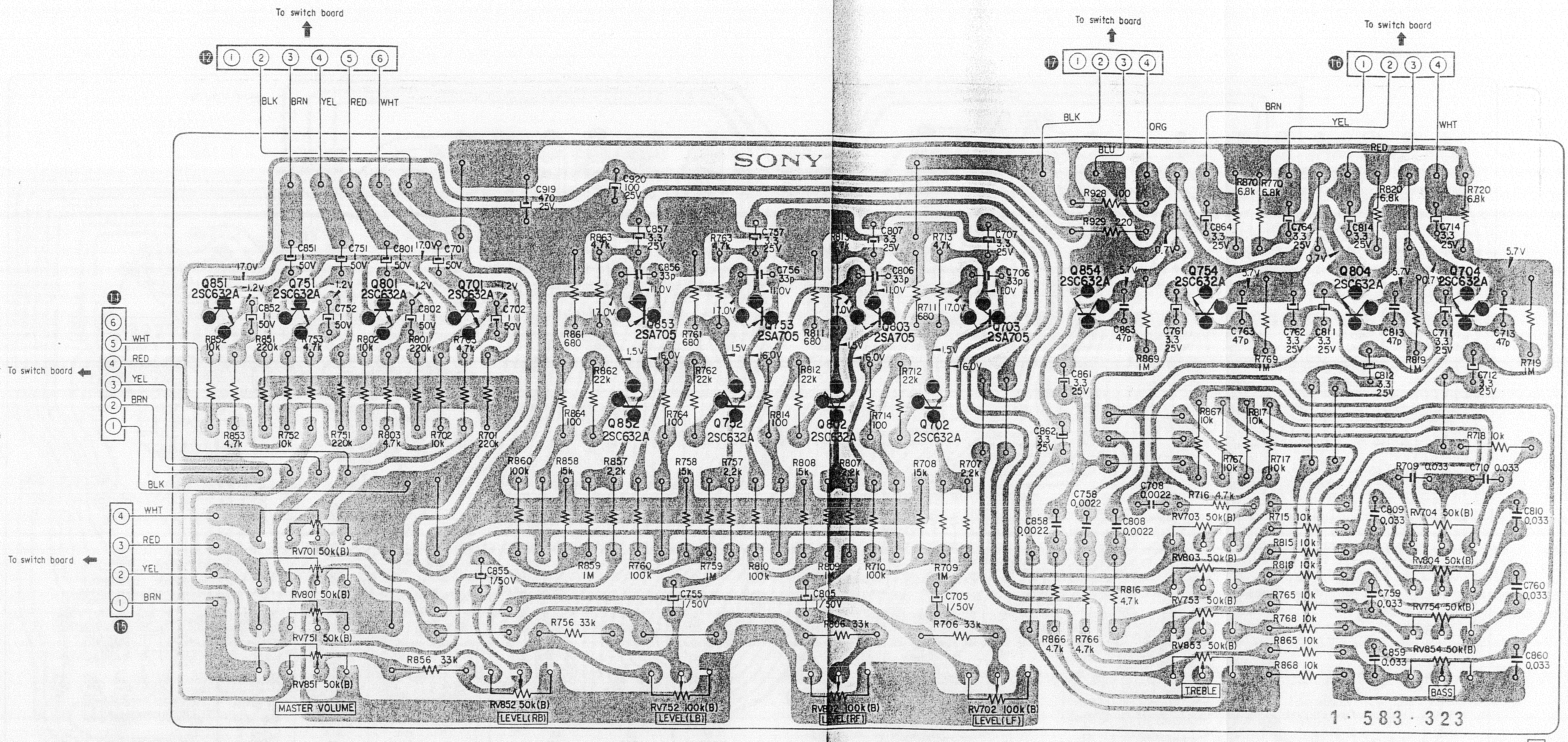
All capacitance values are in μF except as indicated with p, which means μμF.

All voltages are dc measured with a VOM which has an input impedance of 20 k ohms/volt. No signal in.

Voltage variations may be noted due to normal production tolerances.

5-7. MOUNTING DIAGRAM – Preamp/Control Board –

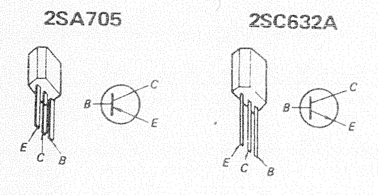
– Conductor Side –


To switch board
12
1 2 3 4 5 6
BLK BRN YEL RED WHT
To switch board
17
1 2 3 4
BLK ORG BLU
To switch board
16
1 2 3 4
BRN YEL WHT RED
SONY
14
6 5 4 3 2 1
WHT RED YEL BRN BLK
To switch board
15
4 3 2 1
WHT RED YEL BRN
To switch board
Q851 2SC632A
Q751 2SC632A
Q801 2SC632A
Q701 2SC632A
Q853 2SA705
Q753 2SA705
Q803 2SA705
Q703 2SA705
Q852 2SC632A
Q752 2SC632A
Q802 2SC632A
Q702 2SC632A
Q854 2SC632A
Q754 2SC632A
Q804 2SC632A
Q704 2SC632A
C919 470 25V
C920 100 25V
C851 50V
C751 50V
C801 50V
C701 50V
C852 50V
C752 50V
C802 50V
C702 50V
R852 10k
R851 220k
R753 4.7k
R802 10k
R801 220k
R703 4.7k
R853 4.7k
R752 10k
R751 220k
R803 4.7k
R702 10k
R701 220k
R863 4.7k
C857 3.3 25V
C856 33p
R763 4.7k
C757 3.3 25V
C756 33p
C807 3.3 25V
C806 33p
R713 4.7k
C707 3.3 25V
C706 33p
R861 680
R761 680
R811 680
R711 680
R862 22k
R762 22k
R812 22k
R712 22k
R864 100
R764 100
R814 100
R714 100
R860 100k
R858 15k
R857 2.2k
R758 15k
R757 2.2k
R808 15k
R807 2.2k
R708 15k
R707 2.2k
R859 1M
R760 100k
R759 1M
R810 100k
R809 1M
R710 100k
R709 1M
C855 1/50V
C755 1/50V
C805 1/50V
C705 1/50V
R756 33k
R856 33k
R806 33k
R706 33k
RV701 50k(B)
RV801 50k(B)
RV751 50k(B)
RV851 50k(B)
MASTER VOLUME
RV852 50k(B) LEVEL(RB)
RV752 100k(B) LEVEL(LB)
RV802 100k(B) LEVEL(RF)
RV702 100k(B) LEVEL(LF)
17.0V 1.2V 1.0V 1.5V 16.0V 0.7V 5.7V
R928 100
R929 220
R870 6.8k
R770 6.8k
R820 6.8k
R720 6.8k
C864 3.3 25V
C764 3.3 25V
C814 3.3 25V
C714 3.3 25V
C863 47p
C761 3.3 25V
C763 47p
C762 3.3 25V
C811 3.3 25V
C813 47p
C711 3.3 25V
C713 47p
R869 1M
R769 1M
R819 1M
R719 1M
C861 3.3 25V
C812 3.3 25V
C712 3.3 25V
C862 3.3 25V
R867 10k
R817 10k
R767 10k
R717 10k
R718 10k
C758 0.0022
C708 0.0022
C858 0.0022
C808 0.0022
R716 4.7k
R709 0.033
C710 0.033
C809 0.033
C810 0.033
RV703 50k(B)
RV704 50k(B)
R715 10k
R815 10k
R818 10k
RV803 50k(B)
RV804 50k(B)
R816 4.7k
RV753 50k(B)
RV754 50k(B)
C759 0.033
C760 0.033
R765 10k
R768 10k
R865 10k
R868 10k
RV853 50k(B)
RV854 50k(B)
C859 0.033
C860 0.033
R866 4.7k
R766 4.7k
TREBLE
BASS
1・583・323

11

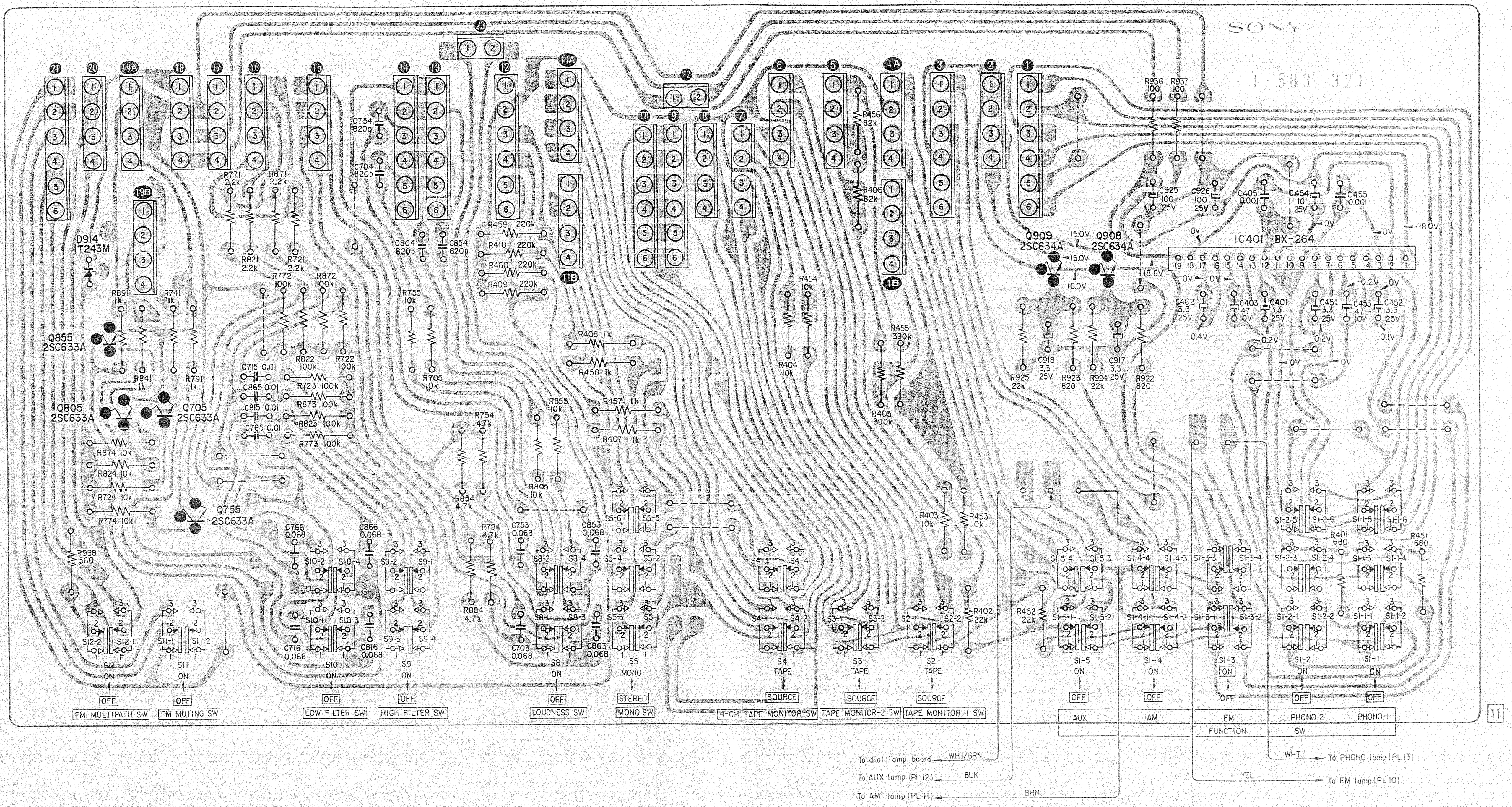
Transistor Location

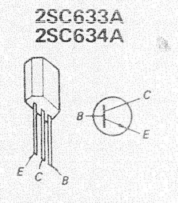
Q851	Q751	Q801	Q701	Q853 Q852	Q753 Q752	Q802	Q803	Q702	Q703	Q854	Q754	Q804	Q704

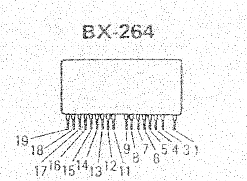

2SA705
2SC632A
B C E
E C B

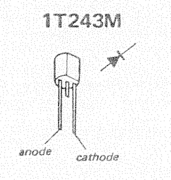
5-8. MOUNTING DIAGRAM – Switch Board –

– Conductor Side –

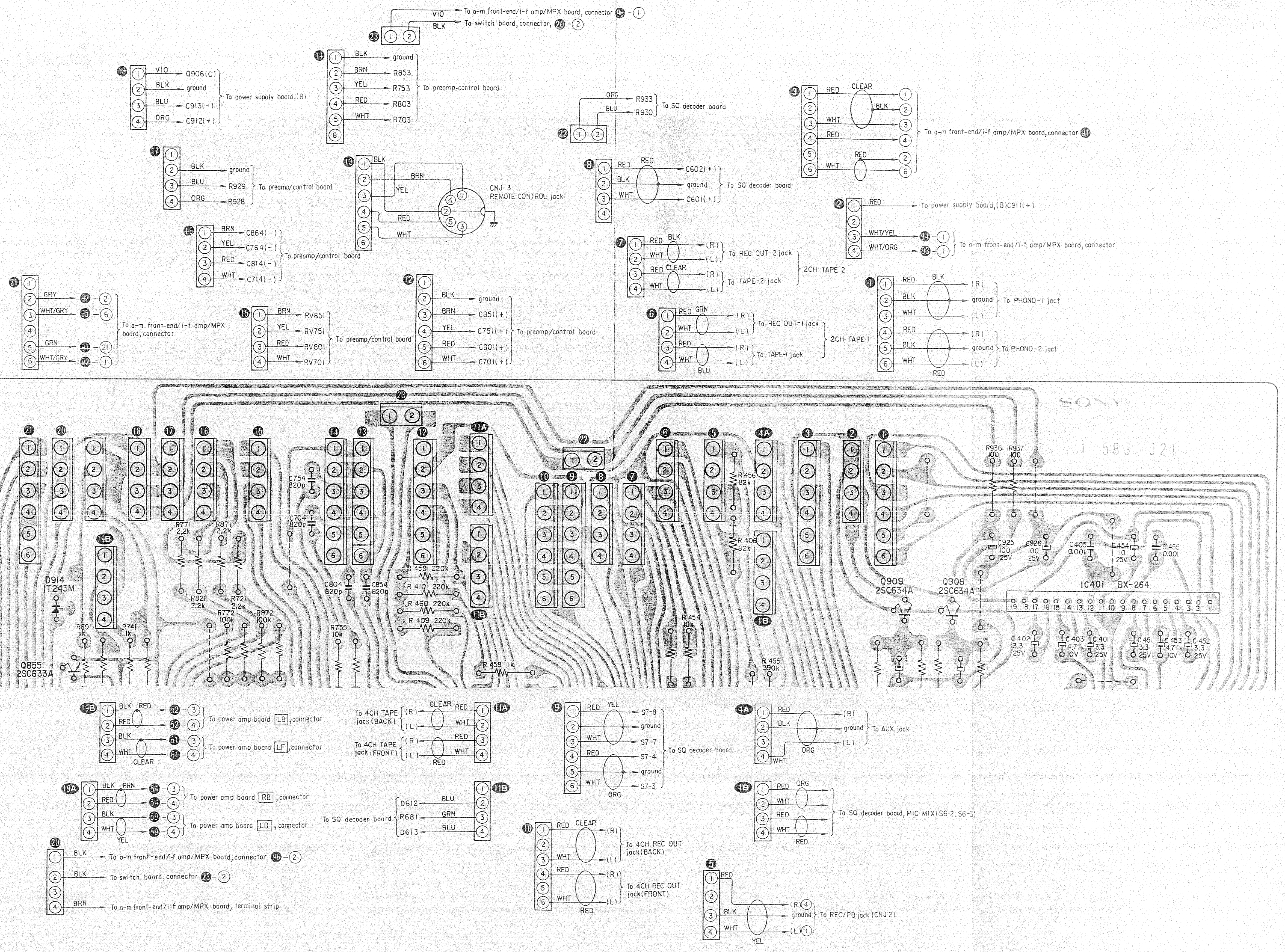

SONY
1-583-321
IC401 BX-264
Q909 2SC634A
Q908 2SC634A
Q855 2SC633A
Q805 2SC633A
Q705 2SC633A
Q755 2SC633A
D914 1T243M
R936 100
R937 100
C925 100 25V
C926 100 25V
C405 0.001
C454 10 25V
C455 0.001
15.0V
16.0V
18.6V
-18.0V
0V
-0.2V
0.1V
0.4V
R459 220k
R410 220k
R460 220k
R409 220k
R456 82k
R406 82k
R454 10k
R404 10k
R455 390k
R405 390k
R406 1k
R458 1k
R457 1k
R407 1k
R855 10k
R805 10k
R754 4.7k
R854 4.7k
R704 4.7k
R804 4.7k
R771 2.2k
R871 2.2k
R821 2.2k
R721 2.2k
R772 100k
R872 100k
R822 100k
R722 100k
R723 100k
R873 100k
R823 100k
R773 100k
R755 10k
R705 10k
R891 1k
R741 1k
R841 1k
R791 1k
R874 10k
R824 10k
R724 10k
R774 10k
R938 560
C754 820p
C704 820p
C804 820p
C854 820p
C715 0.01
C865 0.01
C815 0.01
C765 0.01
C766 0.068
C866 0.068
C716 0.068
C816 0.068
C753 0.068
C853 0.068
C703 0.068
C803 0.068
C918 3.3 25V
C917 3.3 25V
R925 22k
R923 820
R924 22k
R922 820
C402 3.3 25V
C403 47 10V
C401 3.3 25V
C451 3.3 25V
C453 47 10V
C452 3.3 25V
R403 10k
R453 10k
R402 22k
R452 22k
R401 680
R451 680
S12 ON OFF
S11 ON OFF
S10 ON OFF
S9 ON OFF
S8 ON OFF
S5 MONO STEREO
S4 TAPE SOURCE
S3 TAPE SOURCE
S2 TAPE SOURCE
S1-5 ON OFF
S1-4 ON OFF
S1-3 ON OFF
S1-2 ON OFF
S1-1 ON OFF
FM MULTIPATH SW
FM MUTING SW
LOW FILTER SW
HIGH FILTER SW
LOUDNESS SW
MONO SW
4-CH TAPE MONITOR SW
TAPE MONITOR-2 SW
TAPE MONITOR-1 SW
AUX
AM
FM
PHONO-2
PHONO-1
FUNCTION SW
To dial lamp board WHT/GRN
To AUX lamp (PL12) BLK
To AM lamp (PL11) BRN
WHT To PHONO lamp (PL13)
YEL To FM lamp (PL10)
11


2SC633A
2SC634A
B
C
E
E C B


BX-264
19 18 17 16 15 14 13 12 11 9 8 7 6 5 4 3 1


1T243M
anode
cathode

5-9. WIRING DIAGRAM – Switch Board –

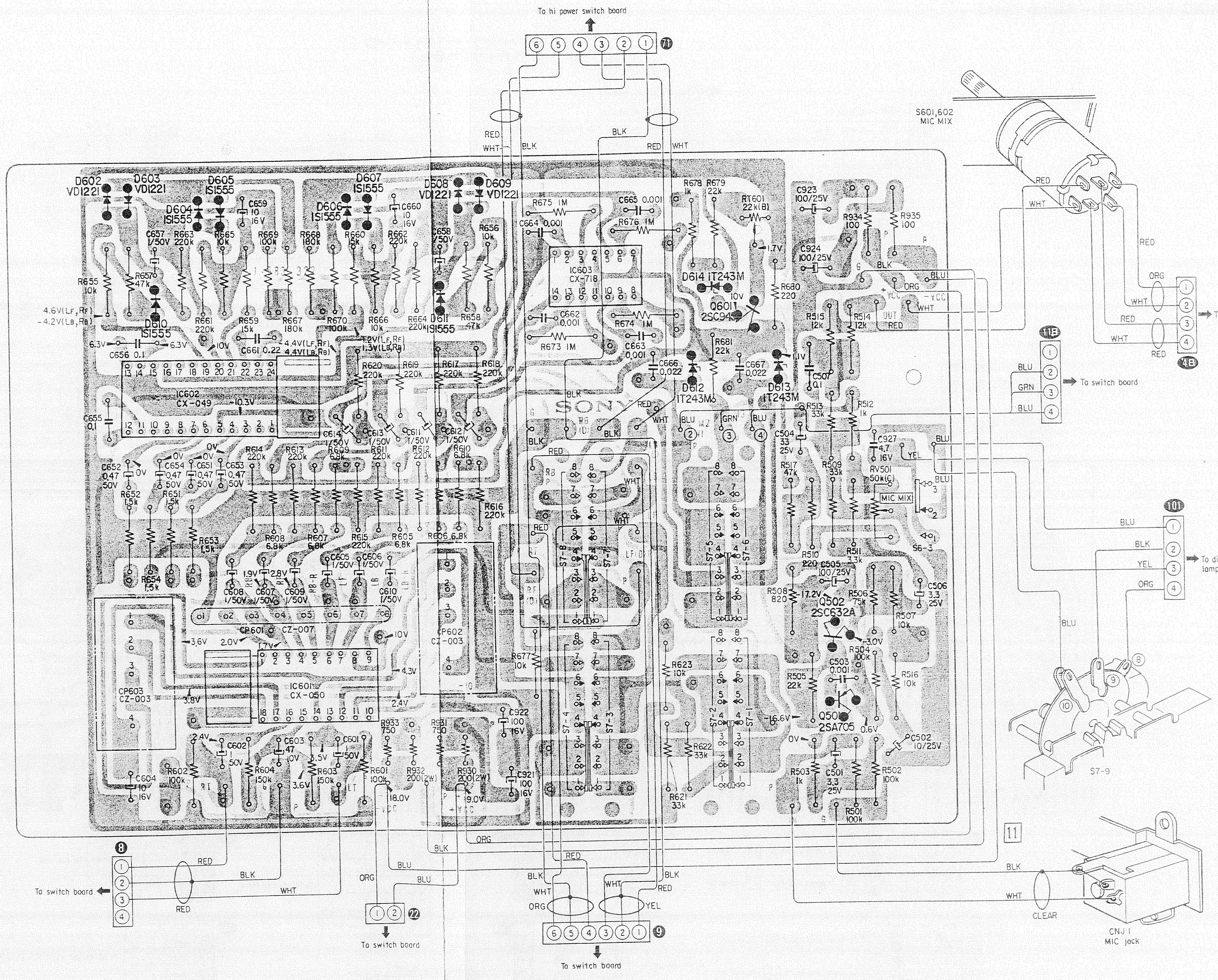

VIO To a-m front-end/i-f amp/MPX board, connector ⑨⑥-①
BLK To switch board, connector, ⑳-②
㉓ ① ②
⑭ BLK ground; BRN R853; YEL R753; RED R803; WHT R703 To preamp-control board
⑱ VIO Q906(C); BLK ground; BLU C913(-); ORG C912(+) To power supply board,(B)
ORG R933; BLU R930 To SQ decoder board ㉒
③ RED CLEAR BLK WHT RED WHT To a-m front-end/i-f amp/MPX board, connector ⑨①
⑰ BLK ground; BLU R929; ORG R928 To preamp/control board
⑬ BLK BRN YEL RED WHT CNJ 3 REMOTE CONTROL jack
⑧ RED BLK WHT C602(+) ground C601(+) To SQ decoder board
② RED To power supply board,(B)C911(+)
WHT/YEL ⑨④-①; WHT/ORG ⑨③-① To a-m front-end/i-f amp/MPX board, connector
⑯ BRN C864(-); YEL C764(-); RED C814(-); WHT C714(-) To preamp/control board
⑦ RED BLK WHT (R) (L) To REC OUT-2 jack; RED CLEAR WHT (R) (L) To TAPE-2 jack; 2CH TAPE 2
㉑ GRY ⑨②-②; WHT/GRY ⑨⑤-⑥; GRN ⑨①-㉑; WHT/GRY ⑨②-① To a-m front-end/i-f amp/MPX board, connector
⑮ BRN RV851; YEL RV751; RED RV801; WHT RV701 To preamp/control board
⑫ BLK ground; BRN C851(+); YEL C751(+); RED C801(+); WHT C701(+) To preamp/control board
⑥ RED GRN WHT (R) (L) To REC OUT-1 jack; RED WHT BLU (R) (L) To TAPE-1 jack; 2CH TAPE 1
① RED BLK WHT (R) ground (L) To PHONO-1 jack; RED BLK WHT (R) ground (L) To PHONO-2 jack
SONY
1 583 321
D914 1T243M
Q855 2SC633A
R891 1k; R741 1k
R771 2.2k; R871 2.2k; R821 2.2k; R721 2.2k; R772 100k; R872 100k
C754 820p; C704 820p; C804 820p; C854 820p
R755 10k
R459 220k; R410 220k; R460 220k; R409 220k
R458 1k
R456 82k; R406 82k; R454 10k; R455 390k
R936 100; R937 100
C925 100 25V; C926 100 25V; C405 0.001; C454 10 25V; C455 0.001
Q909 2SC634A; Q908 2SC634A
IC401 BX-264
C402 3.3 25V; C403 4.7 10V; C401 3.3 25V; C451 3.3 25V; C453 4.7 10V; C452 3.3 25V
⑲B BLK RED ⑥②-③; RED ⑥②-④ To power amp board LB, connector; BLK WHT CLEAR ⑥①-③ ⑥①-④ To power amp board LF, connector
To 4CH TAPE jack(BACK) (R) (L) CLEAR RED WHT ⑪A; To 4CH TAPE jack(FRONT) (R) (L) RED WHT RED
⑨ RED YEL S7-8; ground; WHT S7-7; RED S7-4; ground; WHT ORG S7-3 To SQ decoder board
④A RED BLK (R) ground (L) WHT ORG To AUX jack
⑲A BLK BRN ⑥④-③; RED ⑥④-④ To power amp board RB, connector; BLK ⑥⑨-③; WHT YEL ⑥⑨-④ To power amp board LB, connector
To SQ decoder board D612 BLU; R681 GRN; D613 BLU ⑪B
④B RED ORG WHT RED WHT RED To SQ decoder board, MIC MIX(S6-2, S6-3)
⑩ RED CLEAR (R) WHT (L) To 4CH REC OUT jack(BACK); RED WHT RED (R) (L) To 4CH REC OUT jack(FRONT)
⑳ BLK To a-m front-end/i-f amp/MPX board, connector ⑨⑥-②; BLK To switch board, connector ㉓-②; BRN To a-m front-end/i-f amp/MPX board, terminal strip
⑤ RED BLK WHT YEL (R)④ ground (L)① To REC/PB jack (CNJ 2)

5-10. MOUNTING DIAGRAM – SQ Decoder Board –

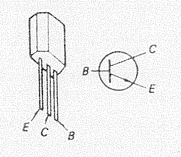
– Conductor Side –

Semiconductor Location

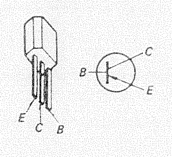
D602 D603 D605 D608 D609
D604 D605 D606 D607
IC603
D610 D611 D614
Q601
D612 D613
IC602
Q502
IC601
Q501


To hi power switch board
71
RED
WHT
BLK
S601,602 MIC MIX
To switch board
11B
4B
BLU
GRN
RED
ORG
101
To dial lamp board
YEL
S7-9
CNJ1 MIC jack
CLEAR
8
22
9
11
IC601 CX-050
IC602 CX-049
IC603 CX-718
CP601 CZ-007
CP602 CZ-003
CP603 CZ-003
Q501 2SA705
Q502 2SC632A
Q601 2SC945
D602 VD1221
D603 VD1221
D605 1S1555
D604 1S1555
D606 1S1555
D607 1S1555
D608 VD1221
D609 VD1221
D610 1S1555
D611 1S1555
D612 1T243M
D613 1T243M
D614 1T243M
RV501 50k(C)
MIC MIX
SONY

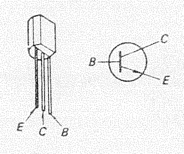
2SC632A



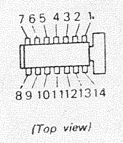
2SA705



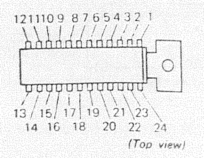
2SC945



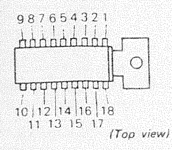
CX-718


7 6 5 4 3 2 1
8 9 10 11 12 13 14
(Top view)

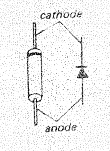
CX-049


12 11 10 9 8 7 6 5 4 3 2 1
13 15 17 19 21 23
14 16 18 20 22 24
(Top view)

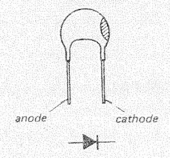
CX-050


9 8 7 6 5 4 3 2 1
10 12 14 16 18
11 13 15 17
(Top view)

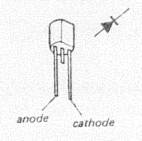
1S1555


cathode
anode

VD1221

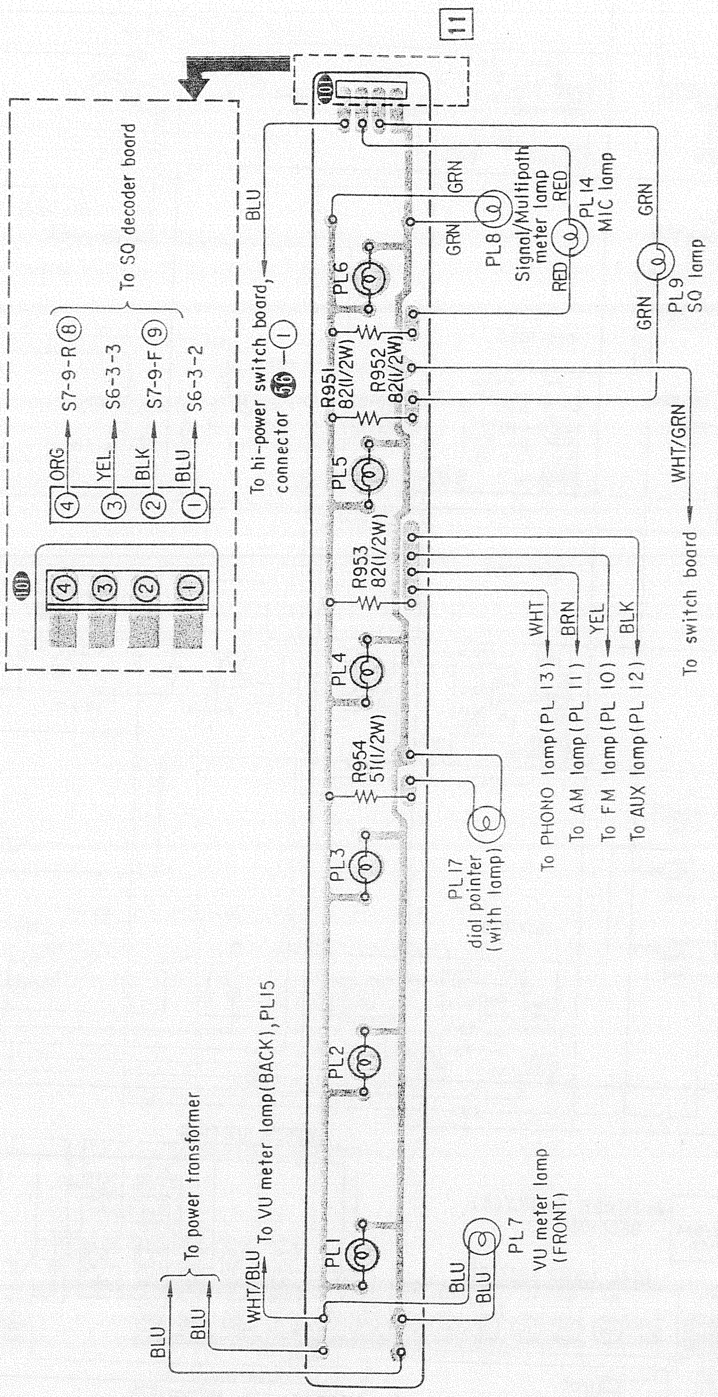

anode
cathode

1T243M

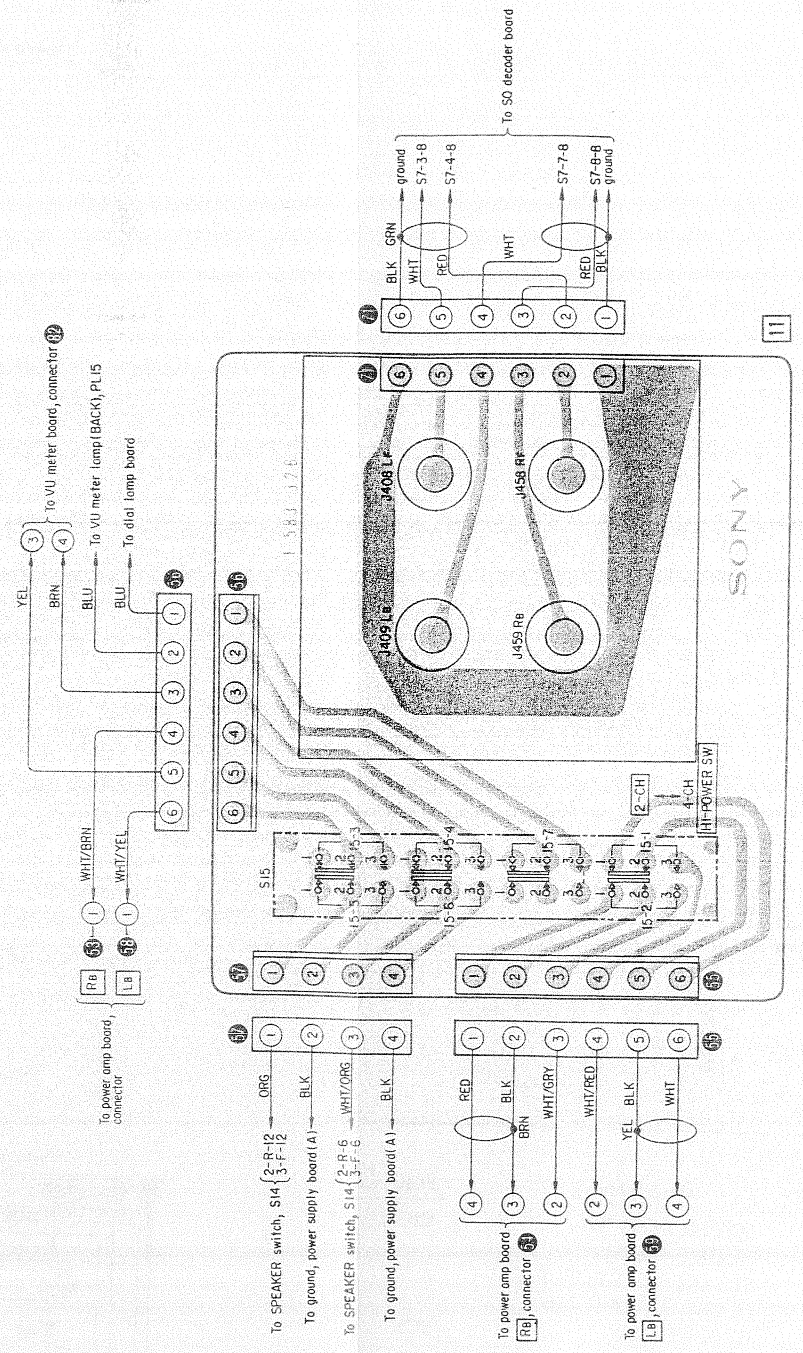

anode
cathode

▨ ---- conductor side
---- component side

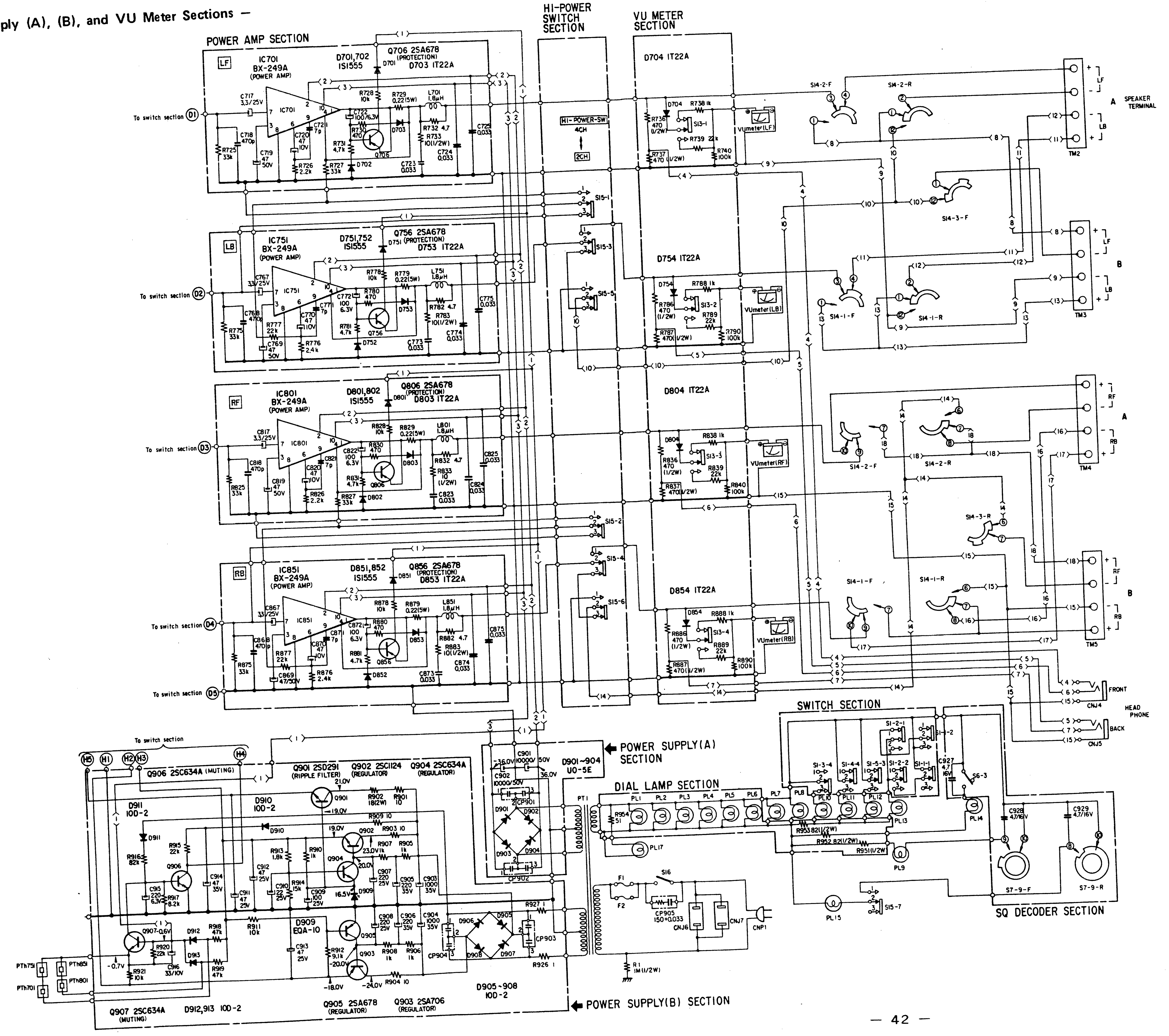
5-11. MOUNTING DIAGRAM – Lamp Board –
– Conductor Side –


11
To SQ decoder board
S7-9-R (8)
S6-3-3
S7-9-F (9)
S6-3-2
ORG
YEL
BLK
BLU
To hi-power switch board, connector 56 – (1)
BLU
GRN
PL8 Signal/Multipath meter lamp
RED
PL14 MIC lamp
GRN
PL9 SQ lamp
WHT/GRN
To switch board
R951 82(1/2W)
R952 82(1/2W)
R953 82(1/2W)
R954 51(1/2W)
PL1
PL2
PL3
PL4
PL5
PL6
PL17 dial pointer (with lamp)
WHT
BRN
YEL
BLK
To PHONO lamp (PL 13)
To AM lamp (PL 11)
To FM lamp (PL 10)
To AUX lamp (PL 12)
To power transformer
BLU
BLU
WHT/BLU
To VU meter lamp (BACK), PL15
PL7 VU meter lamp (FRONT)

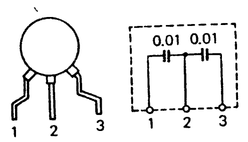
5-12. MOUNTING DIAGRAM – HI-Power Switch Board –
– Conductor Side –


To SQ decoder board
ground
S7-3-8
S7-4-8
S7-7-8
S7-8-8
ground
BLK
GRN
WHT
RED
WHT
RED
BLK
71
11
J408 LF
J458 RF
J409 LB
J459 RB
SONY
To VU meter board, connector 62
To VU meter lamp (BACK), PL15
To dial lamp board
YEL
BRN
BLU
BLU
56
S15
2-CH
4-CH
HI-POWER SW
WHT/BRN
WHT/YEL
Ra 58
Lb 58
To power amp board, connector
ORG
BLK
WHT/ORG
BLK
To SPEAKER switch, S14 (2-R-12, 3-F-12)
To ground, power supply board (A)
To SPEAKER switch, S14 (2-R-6, 3-F-6)
To ground, power supply board (A)
RED
BLK
BRN
WHT/GRY
WHT/RED
YEL
BLK
WHT
To power amp board Ra connector 59
To power amp board Lb connector 59

5-13. SCHEMATIC DIAGRAM – Power Amp, Power Supply (A), (B), and VU Meter Sections –


POWER AMP SECTION
HI-POWER SWITCH SECTION
VU METER SECTION
IC701 BX-249A (POWER AMP)
D701,702 IS1555
Q706 2SA678 (PROTECTION)
D703 IT22A
IC751 BX-249A (POWER AMP)
D751,752 IS1555
Q756 2SA678 (PROTECTION)
D753 IT22A
IC801 BX-249A (POWER AMP)
D801,802 IS1555
Q806 2SA678 (PROTECTION)
D803 IT22A
IC851 BX-249A (POWER AMP)
D851,852 IS1555
Q856 2SA678 (PROTECTION)
D853 IT22A
LF
LB
RF
RB
To switch section
D704 IT22A
D754 IT22A
D804 IT22A
D854 IT22A
VUmeter(LF)
VUmeter(LB)
VUmeter(RF)
VUmeter(RB)
HI-POWER-SW 4CH 2CH
S15-1
S15-2
S15-3
S15-4
S15-5
S15-6
S14-1-F
S14-1-R
S14-2-F
S14-2-R
S14-3-F
S14-3-R
A SPEAKER TERMINAL
TM2
TM3
TM4
TM5
FRONT
BACK
HEAD PHONE
CNJ4
CNJ5
SWITCH SECTION
DIAL LAMP SECTION
SQ DECODER SECTION
S7-9-F
S7-9-R
POWER SUPPLY(A) SECTION
POWER SUPPLY(B) SECTION
D901~904 U0-5E
C901 10000/50V
C902 10000/50V
Q901 2SD291 (RIPPLE FILTER)
Q902 2SC1124 (REGULATOR)
Q904 2SC634A (REGULATOR)
Q906 2SC634A (MUTING)
Q907 2SC634A (MUTING)
Q905 2SA678 (REGULATOR)
Q903 2SA706 (REGULATOR)
D905~908 10D-2
D909 EQA-10
D910 10D-2
D911 10D-2
D912,913 10D-2
PT1
F1
F2
S16
CP905 150+0.033
CNJ6
CNJ7
CNP1
PTH751
PTH701
PTH851
PTH801
36.0V
-36.0V
21.0V
-19.0V
19.0V
23.0V
20.0V
16.5V
-0.7V
-0.6V
-20.0V
-18.0V
-24.0V

CP901~904


0.01 0.01
1 2 3
1 2 3

Ref. No.	Description	Position
S13	METER SENS SW (HIGH – LOW)	HIGH
S14	SPEAKER SELECTOR SW (A + B – A – OFF – B)	A + B
S15	HI-POWER SW (2CH – 4CH)	2CH
S16	POWER SW	OFF

Note:

All resistance values are in ohms. k = 1,000, M = 1,000 k

All capacitance values are in μF except as indicated with p, which means μμF.

All voltages are dc measured with a VOM which has an input impedance of 20 k ohms/volt. No signal in.

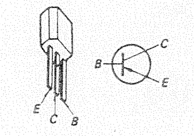
Voltage variations may be noted due to normal production tolerances.

5-14. MOUNTING DIAGRAM – Power Amp Board –

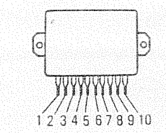
– Conductor Side –

– FRONT –

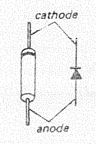
2SA678

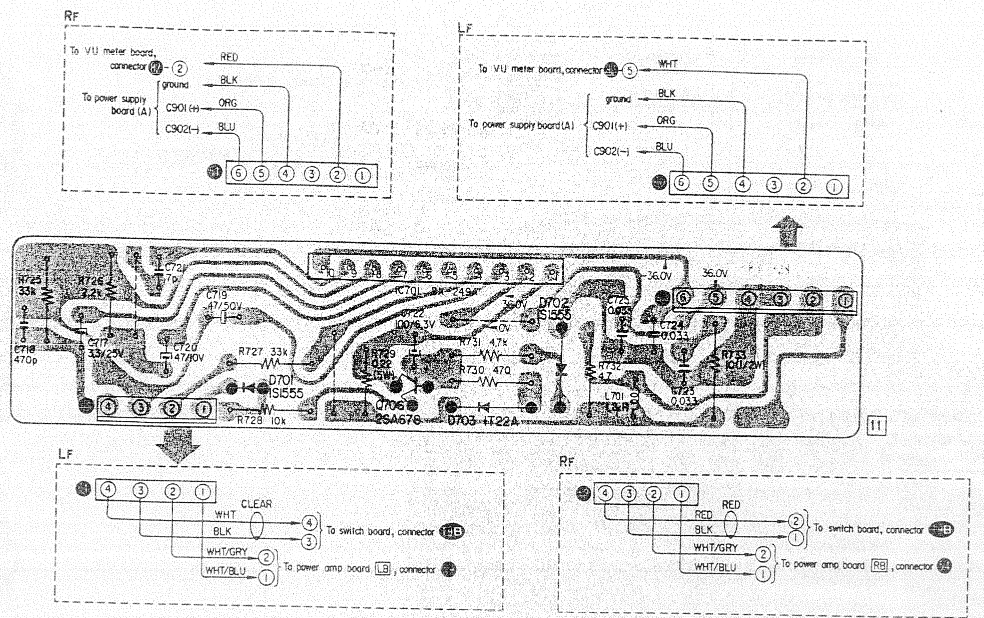


BX-249A

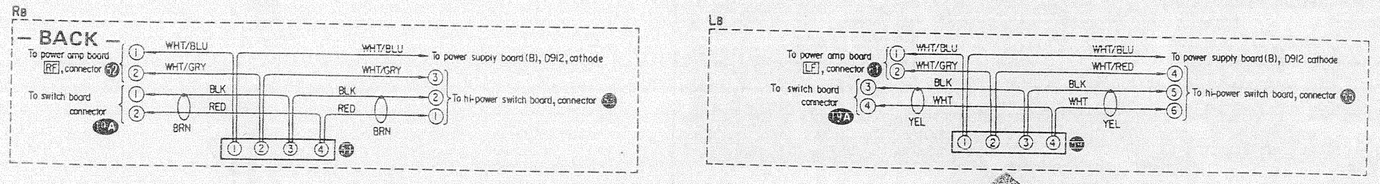

1 2 3 4 5 6 7 8 9 10

1S1555
1T22A

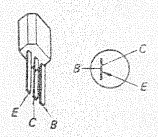

cathode
anode

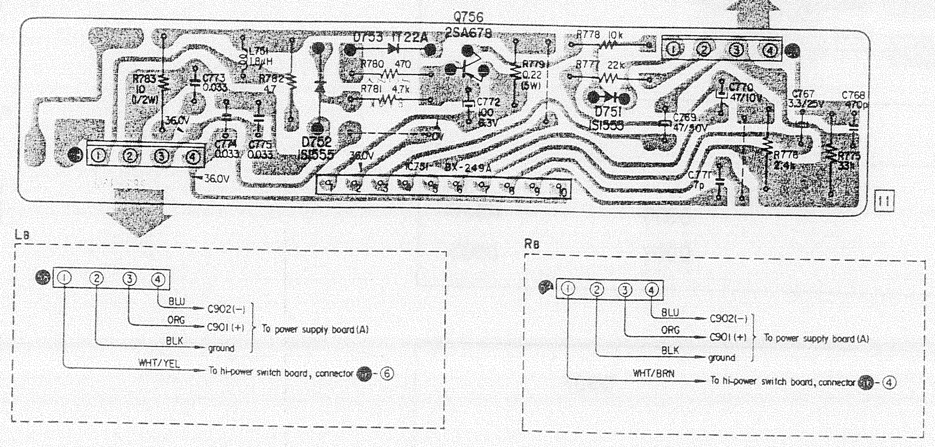

RF
To VU meter board, connector
ground
To power supply board (A)
C901(+)
C902(–)
RED
BLK
ORG
BLU
LF
To VU meter board, connector
WHT
To power supply board (A)
C901(+)
C902(–)
R725 33k
R726 2.2k
C718 470p
C717 33/25V
C719 47/50V
C720 47/10V
IC701 BX-249A
C722 100/6.3V
R727 33k
D701 1S1555
R728 10k
R729 0.22 (1/2W)
R731 47k
R730 470
Q706 2SA678
D702 1S1555
D703 1T22A
C723 0.033
C724 0.033
R732
L701 LB·R
R733 100(1/2W)
C721 0.01
36.0V
–36.0V
0V
LF
CLEAR
WHT
BLK
WHT/GRY
WHT/BLU
To switch board, connector
To power amp board LB, connector
RF
RED
BLK
WHT/GRY
WHT/BLU
To switch board, connector
To power amp board RB, connector

– BACK –

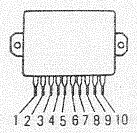

RB
To power amp board RF, connector
To switch board connector
WHT/BLU
WHT/GRY
BLK
RED
BRN
To power supply board (B), D912 cathode
To hi-power switch board, connector
LB
To power amp board LF, connector
To switch board connector
WHT/BLU
WHT/GRY
WHT/RED
BLK
WHT
YEL

2SA678

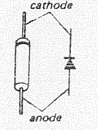



Q756 2SA678
D753 1T22A
R780 470
R781 47k
R779 0.22 (1/2W)
C772 100 6.3V
R778 10k
R777 22k
D751 1S1555
R783 10 (1/2W)
C773 0.033
C774 0.033
D752 1S1555
IC751 BX-249A
C776 47/10V
C767 33/25V
C768 47/50V
C769 47/50V
C771
R776 2.2k
R775 33k
36.0V
–36.0V
LB
BLU
ORG
BLK
WHT/YEL
C902(–)
C901(+)
ground
To power supply board (A)
To hi-power switch board, connector
RB
BLU
ORG
BLK
WHT/BRN
C902(–)
C901(+)
ground
To power supply board (A)
To hi-power switch board, connector

BX-249A

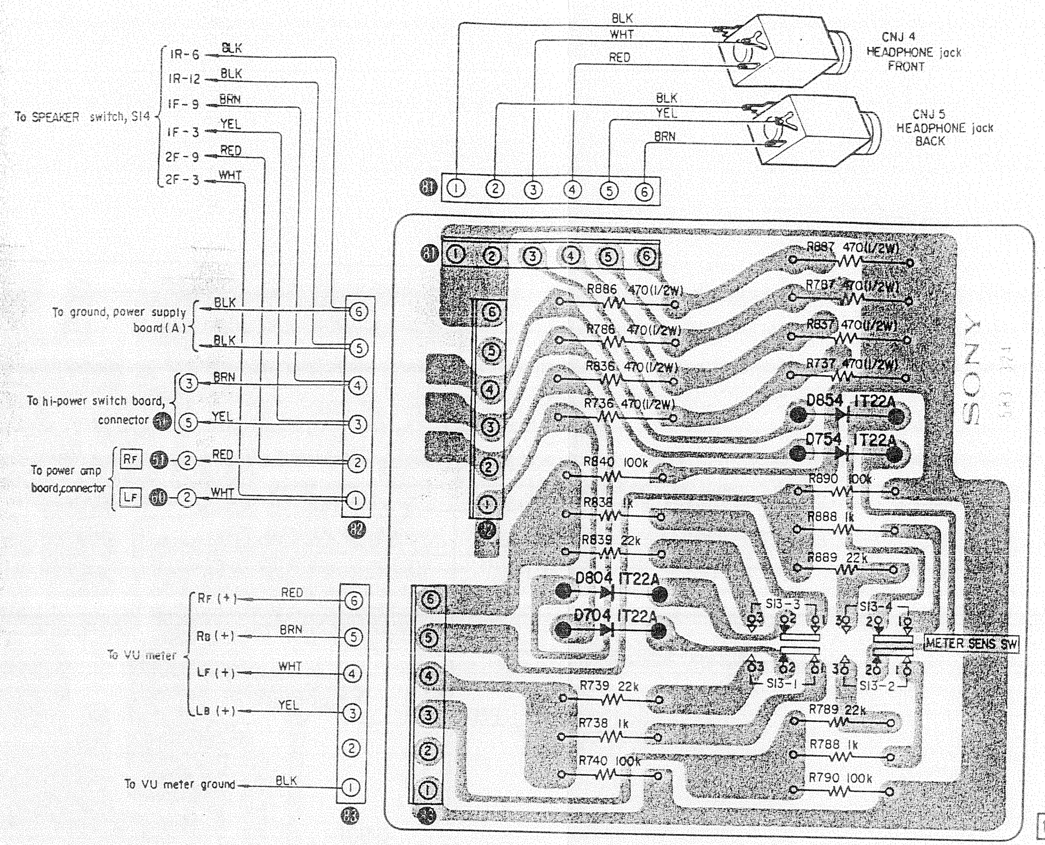

1 2 3 4 5 6 7 8 9 10

1S1555
1T22A

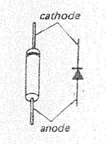

cathode
anode

5-15. MOUNTING DIAGRAM – VU Meter Board –

– Conductor Side –

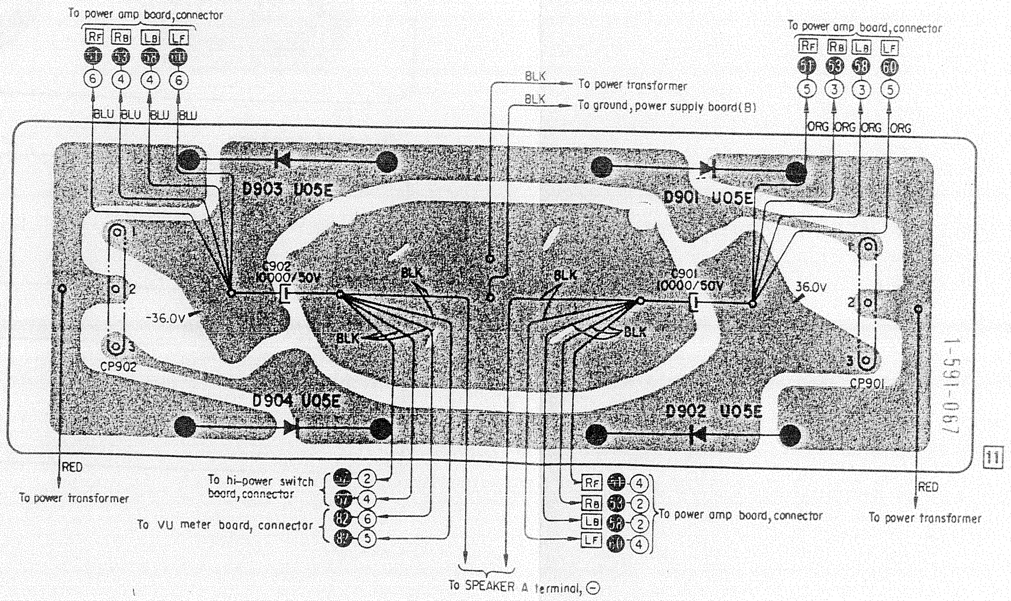

To SPEAKER switch, S14
1R-6
1R-12
1F-9
1F-3
2F-9
2F-3
BLK
BLK
BRN
YEL
RED
WHT
CNJ 4 HEADPHONE jack FRONT
CNJ 5 HEADPHONE jack BACK
WHT
RED
YEL
BRN
To ground, power supply board (A)
To hi-power switch board, connector
To power amp board, connector
To VU meter
RF (+)
RB (+)
LF (+)
LB (+)
To VU meter ground
R887 470(1/2W)
R886 470(1/2W)
R787 470(1/2W)
R786 470(1/2W)
R837 470(1/2W)
R836 470(1/2W)
R737 470(1/2W)
R736 470(1/2W)
D854 1T22A
D754 1T22A
R840 100k
R890 100k
R838 1k
R888 1k
R839 22k
R889 22k
D804 1T22A
D704 1T22A
S13-3
S13-4
S13-1
S13-2
METER SENS SW
R739 22k
R738 1k
R740 100k
R789 22k
R788 1k
R790 100k
SONY

1T22A

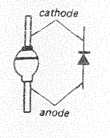

cathode
anode

5-16. MOUNTING DIAGRAM – Power Supply Board (A) –

– Conductor Side –

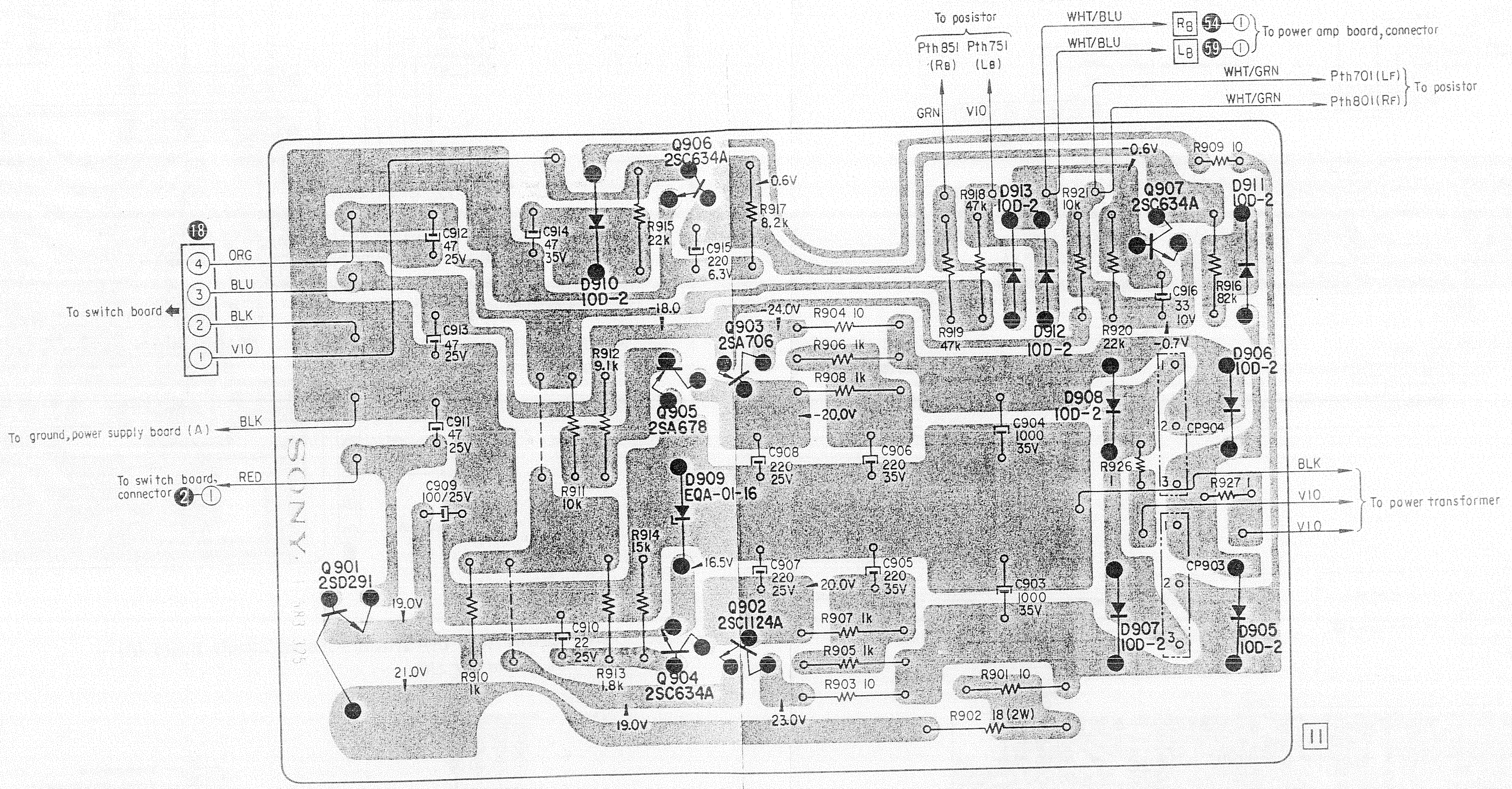

To power amp board, connector
RF
RB
LB
LF
BLU
ORG
BLK
To power transformer
To ground, power supply board (B)
D903 U05E
D901 U05E
D904 U05E
D902 U05E
C902 10000/50V
C901 10000/50V
36.0V
–36.0V
CP902
CP901
1-591-067
RED
To power transformer
To hi-power switch board, connector
To VU meter board, connector
To power amp board, connector
To SPEAKER A terminal, ⊖

U05E


cathode
anode

5-17. MOUNTING DIAGRAM – Power Supply Board (B) –

– Conductor Side –


To posistor
Pth851 Pth751
(RB) (LB)
GRN
V10
WHT/BLU
WHT/BLU
RB 54
LB 59
To power amp board, connector
WHT/GRN
WHT/GRN
Pth701 (LF)
Pth801 (RF)
To posistor
18
4 ORG
3 BLU
2 BLK
1 V10
To switch board
To ground, power supply board (A)
BLK
To switch board, connector 2-1
RED
Q906 2SC634A
0.6V
R917 8.2k
C915 220 6.3V
R915 22k
C914 47 35V
C912 47 25V
D910 10D-2
18.0
-24.0V
R904 10
Q903 2SA706
R906 1k
R908 1k
C913 47 25V
R912 9.1k
Q905 2SA678
-20.0V
C911 47 25V
C909 100/25V
R911 10k
D909 EQA-01-16
C908 220 25V
C906 220 35V
C904 1000 35V
R914 15k
16.5V
C907 220 25V
C905 220 35V
-20.0V
Q901 2SD291
19.0V
Q902 2SC1124A
R907 1k
R905 1k
R903 10
C903 1000 35V
C910 22 25V
R913 1.8k
Q904 2SC634A
R910 1k
21.0V
19.0V
23.0V
R901 10
R902 18 (2W)
SONY
R918 47k
D913 10D-2
R921 10k
Q907 2SC634A
-0.6V
R909 10
D911 10D-2
C916 33 10V
R916 82k
R919 47k
D912 10D-2
R920 22k
-0.7V
D906 10D-2
D908 10D-2
CP904
R926
R927 1
BLK
V10
V10
To power transformer
CP903
D907 10D-2
D905 10D-2
II

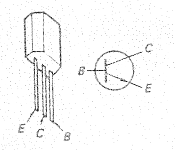
Diode Location

D910
D909
D913 D912
D908
D907
D911
D906
D905

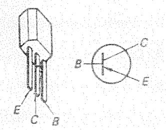
Transistor Location

Q906
Q905 Q903
Q904 Q902
Q901
Q907

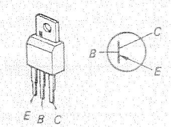
2SC634A



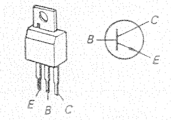
2SA678



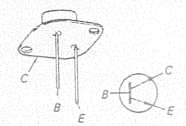
2SA706



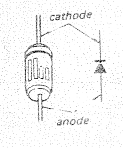
2SC1124A



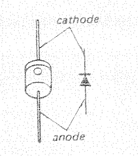
2SD291



EQA-01-16

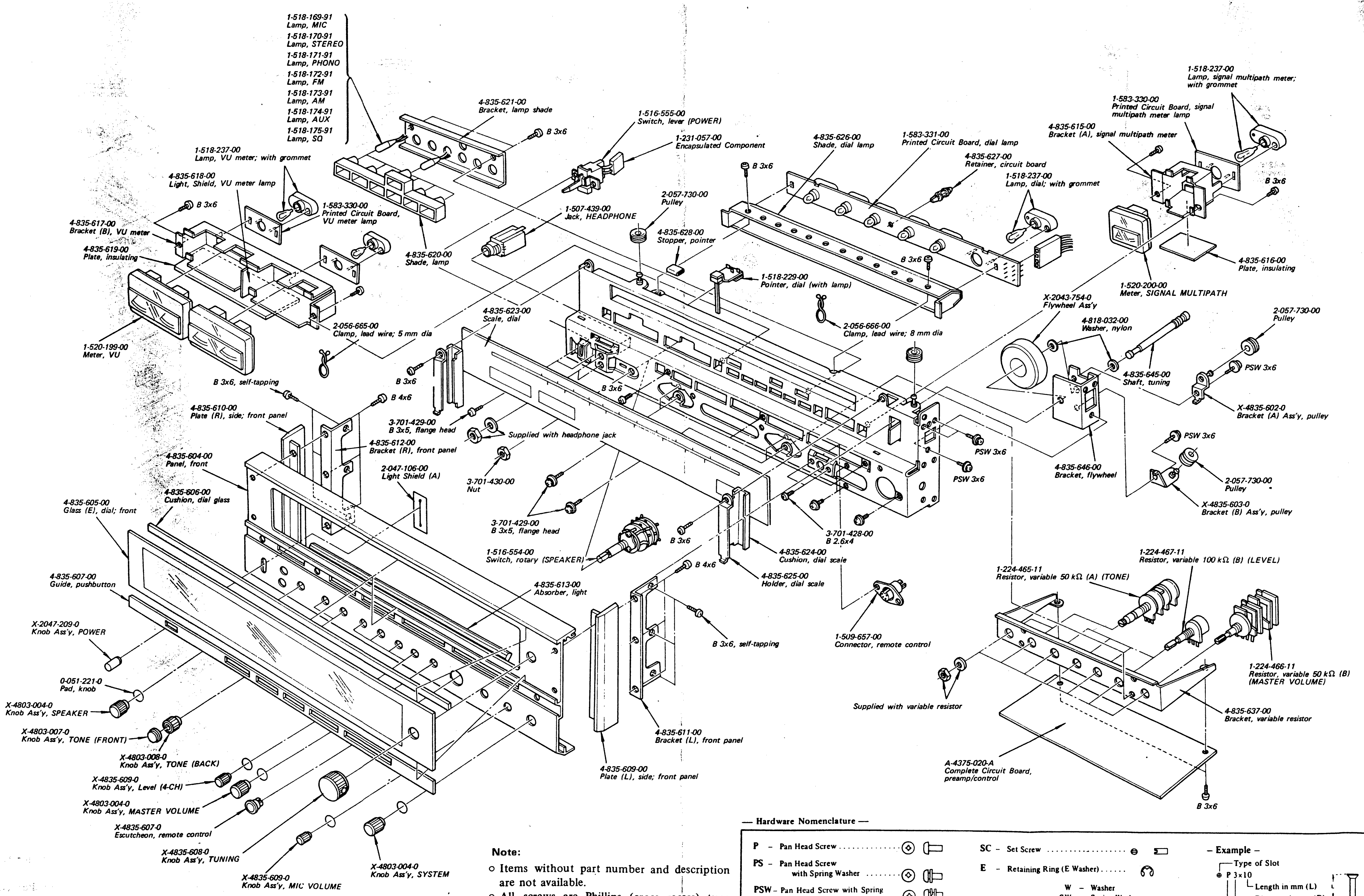

cathode
anode

10D-2


cathode
anode

SECTION 6
EXPLODED VIEWS

(1)


1-518-169-91
Lamp, MIC
1-518-170-91
Lamp, STEREO
1-518-171-91
Lamp, PHONO
1-518-172-91
Lamp, FM
1-518-173-91
Lamp, AM
1-518-174-91
Lamp, AUX
1-518-175-91
Lamp, SQ
4-835-621-00
Bracket, lamp shade
B 3x6
1-518-237-00
Lamp, VU meter; with grommet
4-835-618-00
Light, Shield, VU meter lamp
B 3x6
4-835-617-00
Bracket (B), VU meter
4-835-619-00
Plate, insulating
1-583-330-00
Printed Circuit Board, VU meter lamp
4-835-620-00
Shade, lamp
1-520-199-00
Meter, VU
2-056-665-00
Clamp, lead wire; 5 mm dia
1-516-555-00
Switch, lever (POWER)
1-231-057-00
Encapsulated Component
1-507-439-00
Jack, HEADPHONE
2-057-730-00
Pulley
4-835-628-00
Stopper, pointer
B 3x6
4-835-626-00
Shade, dial lamp
1-583-331-00
Printed Circuit Board, dial lamp
4-835-627-00
Retainer, circuit board
1-518-237-00
Lamp, dial; with grommet
B 3x6
1-518-229-00
Pointer, dial (with lamp)
2-056-666-00
Clamp, lead wire; 8 mm dia
1-518-237-00
Lamp, signal multipath meter; with grommet
1-583-330-00
Printed Circuit Board, signal multipath meter lamp
4-835-615-00
Bracket (A), signal multipath meter
B 3x6
4-835-616-00
Plate, insulating
1-520-200-00
Meter, SIGNAL MULTIPATH
X-2043-754-0
Flywheel Ass'y
4-818-032-00
Washer, nylon
4-835-645-00
Shaft, tuning
2-057-730-00
Pulley
PSW 3x6
X-4835-602-0
Bracket (A) Ass'y, pulley
PSW 3x6
PSW 3x6
PSW 3x6
4-835-646-00
Bracket, flywheel
2-057-730-00
Pulley
X-4835-603-0
Bracket (B) Ass'y, pulley
4-835-623-00
Scale, dial
B 3x6
B 3x6
B 3x6, self-tapping
B 4x6
4-835-610-00
Plate (R), side; front panel
3-701-429-00
B 3x5, flange head
4-835-612-00
Bracket (R), front panel
Supplied with headphone jack
2-047-106-00
Light Shield (A)
3-701-430-00
Nut
3-701-429-00
B 3x5, flange head
1-516-554-00
Switch, rotary (SPEAKER)
4-835-604-00
Panel, front
4-835-606-00
Cushion, dial glass
4-835-605-00
Glass (E), dial; front
4-835-607-00
Guide, pushbutton
4-835-613-00
Absorber, light
B 3x6
3-701-428-00
B 2.6x4
4-835-624-00
Cushion, dial scale
B 4x6
4-835-625-00
Holder, dial scale
B 3x6, self-tapping
1-509-657-00
Connector, remote control
4-835-611-00
Bracket (L), front panel
4-835-609-00
Plate (L), side; front panel
X-2047-209-0
Knob Ass'y, POWER
0-051-221-0
Pad, knob
X-4803-004-0
Knob Ass'y, SPEAKER
X-4803-007-0
Knob Ass'y, TONE (FRONT)
X-4803-008-0
Knob Ass'y, TONE (BACK)
X-4835-609-0
Knob Ass'y, Level (4-CH)
X-4803-004-0
Knob Ass'y, MASTER VOLUME
X-4835-607-0
Escutcheon, remote control
X-4835-608-0
Knob Ass'y, TUNING
X-4835-609-0
Knob Ass'y, MIC VOLUME
X-4803-004-0
Knob Ass'y, SYSTEM
1-224-467-11
Resistor, variable 100 kΩ (B) (LEVEL)
1-224-465-11
Resistor, variable 50 kΩ (A) (TONE)
1-224-466-11
Resistor, variable 50 kΩ (B) (MASTER VOLUME)
Supplied with variable resistor
4-835-637-00
Bracket, variable resistor
A-4375-020-A
Complete Circuit Board, preamp/control
B 3x6

Note:

- o Items without part number and description are not available.
- o All screws are Phillips (cross recess) type unless otherwise noted.
  (–) = slotted head

— Hardware Nomenclature —

P – Pan Head Screw ....

PS – Pan Head Screw with Spring Washer ....

PSW – Pan Head Screw with Spring Washer and Washer ....

B – Binding Head Screw ....

SC – Set Screw ....

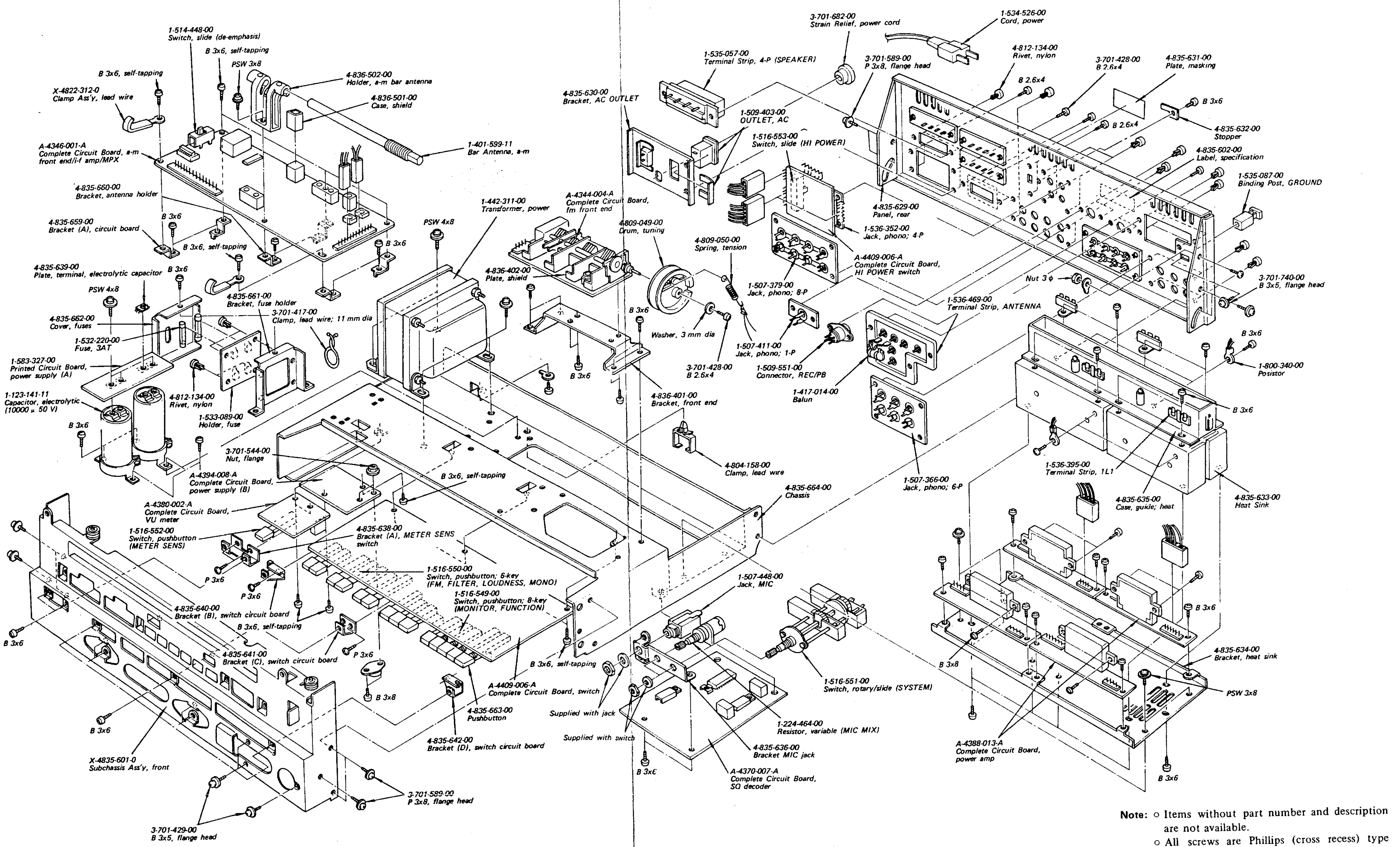
E – Retaining Ring (E Washer)......

W – Washer
SW – Spring Washer
LW – Lock Washer
N – Nut

– Example –

⊕ P 3×10
Type of Slot
Length in mm (L)
Diameter in mm (D)
Type of Head

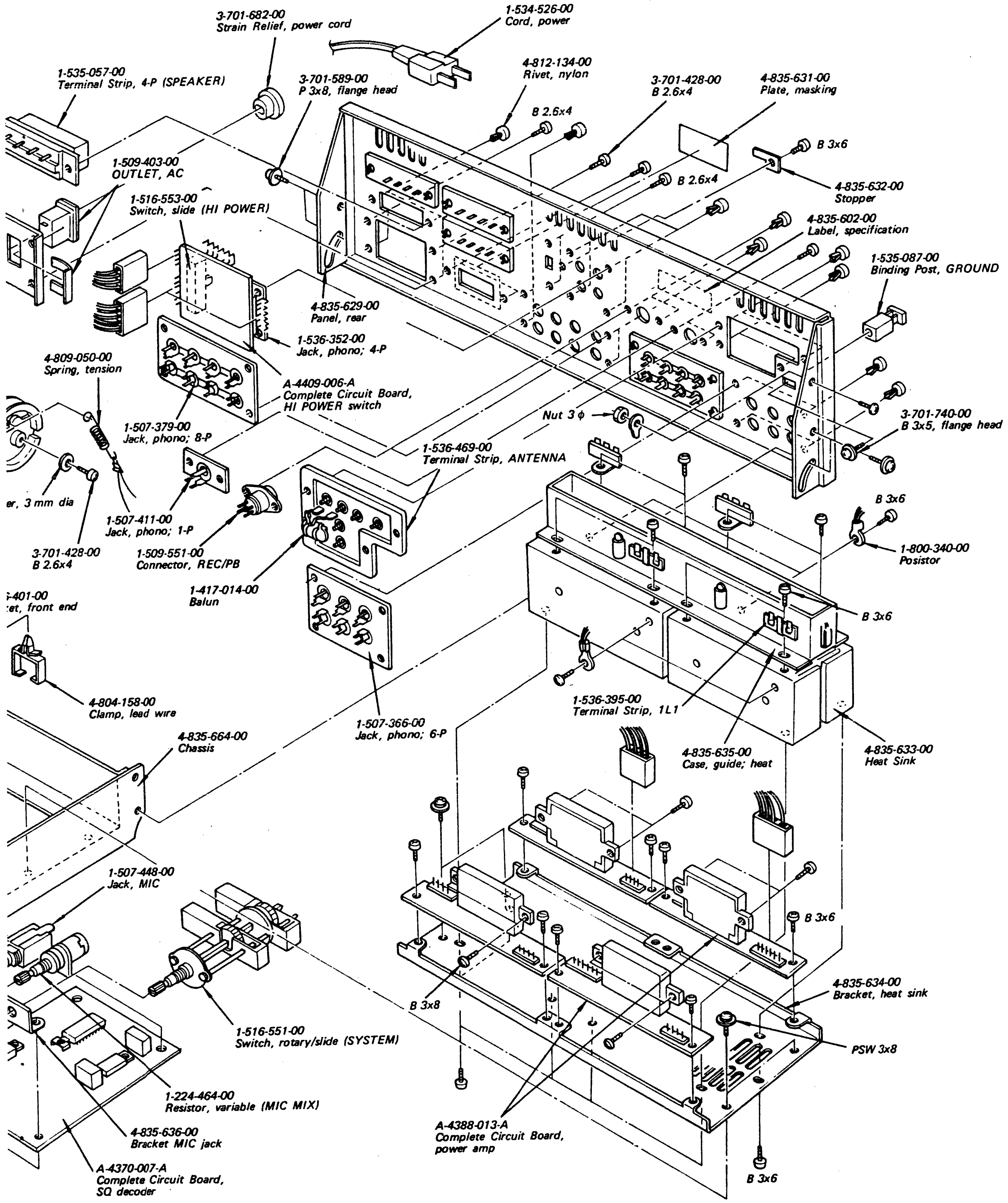
(2)


1-514-448-00
Switch, slide (de-emphasis)
B 3x6, self-tapping
PSW 3x8
B 3x6, self-tapping
X-4822-312-0
Clamp Ass'y, lead wire
4-836-502-00
Holder, a-m bar antenna
4-836-501-00
Case, shield
A-4346-001-A
Complete Circuit Board, a-m front end/i-f amp/MPX
1-401-599-11
Bar Antenna, a-m
4-835-660-00
Bracket, antenna holder
4-835-659-00
Bracket (A), circuit board
B 3x6
B 3x6, self-tapping
B 3x6
1-442-311-00
Transformer, power
PSW 4x8
4-835-639-00
Plate, terminal, electrolytic capacitor
B 3x6
PSW 4x8
4-835-661-00
Bracket, fuse holder
3-701-417-00
Clamp, lead wire; 11 mm dia
4-835-662-00
Cover, fuses
1-532-220-00
Fuse, 3AT
1-583-327-00
Printed Circuit Board, power supply (A)
1-123-141-11
Capacitor, electrolytic (10000 µ 50 V)
4-812-134-00
Rivet, nylon
1-533-089-00
Holder, fuse
B 3x6
3-701-544-00
Nut, flange
A-4394-008-A
Complete Circuit Board, power supply (B)
B 3x6, self-tapping
A-4380-002-A
Complete Circuit Board, VU meter
1-516-552-00
Switch, pushbutton (METER SENS)
4-835-638-00
Bracket (A), METER SENS switch
P 3x6
P 3x6
1-516-550-00
Switch, pushbutton; 6-key (FM, FILTER, LOUDNESS, MONO)
1-516-549-00
Switch, pushbutton; 8-key (MONITOR, FUNCTION)
4-835-640-00
Bracket (B), switch circuit board
B 3x6, self-tapping
B 3x6
4-835-641-00
Bracket (C), switch circuit board
P 3x6
B 3x8
B 3x6, self-tapping
A-4409-006-A
Complete Circuit Board, switch
4-835-663-00
Pushbutton
4-835-642-00
Bracket (D), switch circuit board
B 3x6
X-4835-601-0
Subchassis Ass'y, front
3-701-589-00
P 3x8, flange head
3-701-429-00
B 3x5, flange head
4-836-402-00
Plate, shield
A-4344-004-A
Complete Circuit Board, fm front end
4-835-630-00
Bracket, AC OUTLET
1-535-057-00
Terminal Strip, 4-P (SPEAKER)
3-701-682-00
Strain Relief, power cord
1-534-526-00
Cord, power
3-701-589-00
P 3x8, flange head
4-812-134-00
Rivet, nylon
B 2.6x4
3-701-428-00
B 2.6x4
4-835-631-00
Plate, masking
B 3x6
B 2.6x4
4-835-632-00
Stopper
1-509-403-00
OUTLET, AC
1-516-553-00
Switch, slide (HI POWER)
4-835-602-00
Label, specification
1-535-087-00
Binding Post, GROUND
4-835-629-00
Panel, rear
1-536-352-00
Jack, phono; 4-P
4-809-049-00
Drum, tuning
4-809-050-00
Spring, tension
A-4409-006-A
Complete Circuit Board, HI POWER switch
1-507-379-00
Jack, phono; 8-P
Nut 3 ϕ
3-701-740-00
B 3x5, flange head
B 3x6
1-536-469-00
Terminal Strip, ANTENNA
Washer, 3 mm dia
1-507-411-00
Jack, phono; 1-P
B 3x6
3-701-428-00
B 2.6x4
1-509-551-00
Connector, REC/PB
B 3x6
1-800-340-00
Posistor
4-836-401-00
Bracket, front end
1-417-014-00
Balun
B 3x6
4-804-158-00
Clamp, lead wire
1-536-395-00
Terminal Strip, 1L1
1-507-366-00
Jack, phono; 6-P
4-835-635-00
Case, guide; heat
4-835-633-00
Heat Sink
4-835-664-00
Chassis
1-507-448-00
Jack, MIC
B 3x6
1-516-551-00
Switch, rotary/slide (SYSTEM)
B 3x8
4-835-634-00
Bracket, heat sink
PSW 3x8
Supplied with jack
Supplied with switch
1-224-464-00
Resistor, variable (MIC MIX)
4-835-636-00
Bracket MIC jack
B 3x6
A-4370-007-A
Complete Circuit Board, SQ decoder
A-4388-013-A
Complete Circuit Board, power amp
B 3x6

Note: o Items without part number and description are not available.

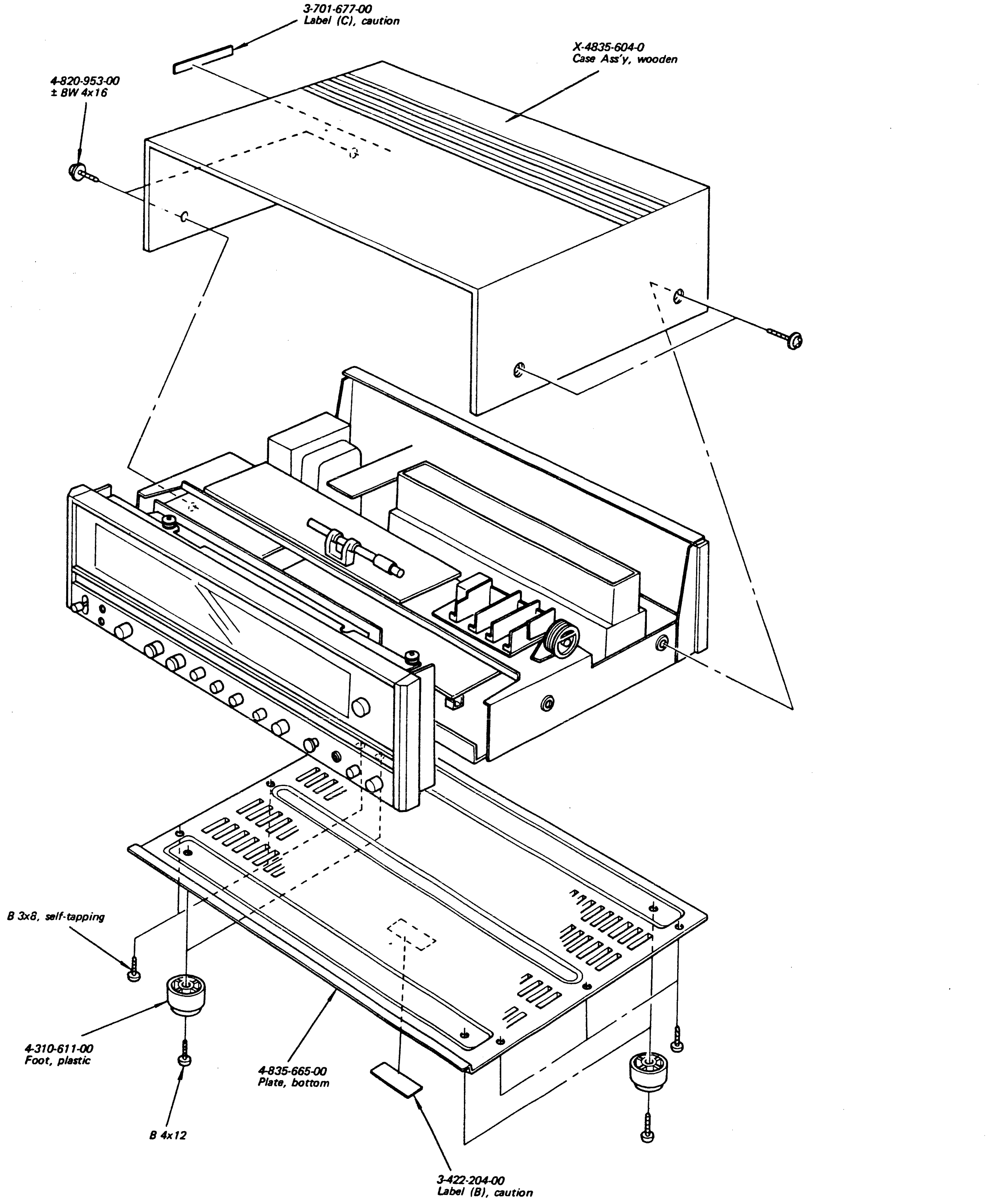
o All screws are Phillips (cross recess) type unless otherwise noted.

(–) = slotted head


3-701-682-00
Strain Relief, power cord
1-534-526-00
Cord, power
1-535-057-00
Terminal Strip, 4-P (SPEAKER)
3-701-589-00
P 3x8, flange head
4-812-134-00
Rivet, nylon
B 2.6x4
3-701-428-00
B 2.6x4
4-835-631-00
Plate, masking
B 3x6
B 2.6x4
4-835-632-00
Stopper
1-509-403-00
OUTLET, AC
1-516-553-00
Switch, slide (HI POWER)
4-835-602-00
Label, specification
1-535-087-00
Binding Post, GROUND
4-835-629-00
Panel, rear
1-536-352-00
Jack, phono; 4-P
4-809-050-00
Spring, tension
A-4409-006-A
Complete Circuit Board,
HI POWER switch
1-507-379-00
Jack, phono; 8-P
Nut 3 ϕ
3-701-740-00
B 3x5, flange head
1-536-469-00
Terminal Strip, ANTENNA
er, 3 mm dia
1-507-411-00
Jack, phono; 1-P
B 3x6
1-800-340-00
Posistor
3-701-428-00
B 2.6x4
1-509-551-00
Connector, REC/PB
1-417-014-00
Balun
-401-00
et, front end
B 3x6
4-804-158-00
Clamp, lead wire
1-536-395-00
Terminal Strip, 1L1
1-507-366-00
Jack, phono; 6-P
4-835-635-00
Case, guide; heat
4-835-633-00
Heat Sink
4-835-664-00
Chassis
1-507-448-00
Jack, MIC
B 3x6
4-835-634-00
Bracket, heat sink
B 3x8
1-516-551-00
Switch, rotary/slide (SYSTEM)
PSW 3x8
1-224-464-00
Resistor, variable (MIC MIX)
4-835-636-00
Bracket MIC jack
A-4388-013-A
Complete Circuit Board,
power amp
A-4370-007-A
Complete Circuit Board,
SQ decoder
B 3x6

Note: ○ Items without part number and description are not available.
○ All screws are Phillips (cross recess) type unless otherwise noted.
(–) = slotted head

(3)


3-701-677-00
Label (C), caution
X-4835-604-0
Case Ass'y, wooden
4-820-953-00
± BW 4x16
B 3x8, self-tapping
4-310-611-00
Foot, plastic
B 4x12
4-835-665-00
Plate, bottom
3-422-204-00
Label (B), caution

Note: ○ Items without part number and description are not available.
○ All screws are Phillips (cross recess) type unless otherwise noted.
(–) = slotted head

SECTION 7
ELECTRICAL PARTS LIST

COMPLETE CIRCUIT BOARDS

Ref. No.	Part No.	Description
	A-4344-004-A	Fm Front-end (FAF-030)
	A-4346-001-A	Am Front-end/I-f Amp/MPX (IF-030)
	A-4370-007-A	SQ Decoder
	A-4409-006-A	Switch
	A-4375-020-A	Preamp/Control
	A-4380-002-A	VU Meter
	A-4388-013-A	Power Amp
	A-4394-008-A	Power Supply (B)

SEMICONDUCTORS

Ref. No.	Part No.	Description
Q101		FET 3SK37
Q102		FET 3SK37
Q103		Transistor 2SC403C
Q104		Transistor 2SC403C
Q201		Transistor 2SC403C
Q301		FET 2SK23A
Q302		Transistor 2SC633A
Q303		Transistor 2SC633A
Q501		Transistor 2SA705
Q502		Transistor 2SC632A
Q601		Transistor 2SC634A
Q701(Q751) Q801(Q851)		Transistor 2SC632A
Q702(Q752) Q802(Q852)		Transistor 2SC632A
Q703(Q753) Q803(Q853)		Transistor 2SA705
Q704(Q754) Q804(Q854)		Transistor 2SC632A
Q705(Q755) Q805(Q855)		Transistor 2SC633A
Q706(Q756) Q806(Q856)		Transistor 2SA678
Q901		Transistor 2SD291
Q902		Transistor 2SC1124
Q903		Transistor 2SA706
Q904		Transistor 2SC634A
Q905		Transistor 2SA678
Q906		Transistor 2SC634A
Q907		Transistor 2SC634A
Q1401		Transistor 2SC403C
Q1402		Transistor 2SC710
Q1403		Transistor 2SC710
Q1404		Transistor 2SC710
Q1501		Transistor 2SC633A
Q1502		Transistor 2SC403C
Q1503		Transistor 2SC633A
Q1504		Transistor 2SC633A
Q1505		Transistor 2SC633A
Q1506		FET 2SK23A
Q1601(Q1651)		Transistor 2SC633A
IC201		IC CX-0412
IC202		IC CX-0412
IC301		IC HA-1156
IC401		IC BX-264
IC601		IC CX-050
IC602		IC CX-049
IC603		IC CX-718
IC701(IC751) IC801(IC851)		IC BX-249A
D201		Diode 1T22A
D202		Diode 1T22A
D602		Diode VD-1221
D603		Diode VD-1221
D604		Diode 1S1555
D605		Diode 1S1555
D606		Diode 1S1555
D607		Diode 1S1555
D608		Diode VD-1221
D609		Diode VD-1221
D610		Diode 1S1555
D611		Diode 1S1555
D612		Diode 1T243M
D613		Diode 1T243M
D614		Diode 1T243M

Ref. No.	Part No.	Description
D701(D751) D801(D851)		Diode 1S1555
D702(D752) D802(D852)		Diode 1S1555
D703(D753) D803(D853)		Diode 1T22A
D704(D754) D804(D854)		Diode 1T22A
D901		Diode UO-5E
D902		Diode UO-5E
D903		Diode UO-5E
D904		Diode UO-5E
D905		Diode 10D-2
D906		Diode 10D-2
D907		Diode 10D-2
D908		Diode 10D-2
D909		Diode EQA-16
D910		Diode 10D-2
D911		Diode 10D-2
D912		Diode 10D-2
D913		Diode 10D-2
D914		Diode 1T243M
D1401		Diode 1T22A
D1402		Diode 1T22A
D1403		Diode 1S1555
D1404		Diode 1T40
D1501		Diode 1T22A
D1502		Diode 1T22A
D1503		Diode 1T40
D1504		Diode 1T40
D1505		Diode 1T40
D1506		Diode 1T22A
D1507		Diode 1T22A
D1508		Diode 1S1555
Pth701 (Pth751) Pth801 (Pth851)	1-800-340-00	Posistor

TRANSFORMERS, COILS AND INDUCTORS

Ref. No.	Part No.	Description
B1	1-417-014-00	Balun
CFX1401	1-403-963-00	Transformer, i-f; 455 kHz
IFT101	1-403-295-00	Transformer, i-f
IFT201	1-403-964-00	Transformer, discriminator
IFT1401	1-403-149-00	Transformer, i-f; 455 kHz
L101	1-401-601-00	Coil, fm antenna
L102	1-425-851-00	Coil, fm rf1
L103	1-425-849-00	Coil, fm rf2
L104	1-407-174-00	Inductor, micro; 270 μH
L105	1-407-174-00	Inductor, micro; 270 μH
L106	1-407-182-00	Inductor, micro; 2.2 μH
L107	1-407-182-00	Inductor, micro; 2.2 μH
L201	1-407-177-00	Inductor, micro; 470 μH
L301	1-407-418-00	Inductor, shielded; 22 mH
L1401	1-401-599-11	Bar Antenna, a-m
L1402	1-407-169-00	Inductor, micro; 100 μH
L1403	1-405-656-00	Coil, a-m osc
L701(L751) L801(L851)	1-407-592-00	Inductor, micro; 1.8 μH
PT1	1-442-311-00	Transformer, power

CAPACITORS

All capacitors here are electrolytic type unless otherwise specified and in μF except as indicated with p (p means μμ).

Ref. No.	Part No.	Description			
C101	1-102-670-11	18p	±5%	50V	ceramic
C102	1-101-924-11	0.02	$\pm^{80}_{20}$%	25V	ceramic
C103	1-102-668-11	15p	±5%	50V	ceramic
C104	1-102-257-11	0.002	$\pm^{80}_{20}$%	50V	ceramic
C106	1-102-671-11	20p	±5%	50V	ceramic
C107	1-102-848-11	180p	±10%	50V	ceramic
C108	1-102-919-11	0.002	$\pm^{80}_{20}$%	50V	ceramic
C109	1-101-924-11	0.02	$\pm^{80}_{20}$%	25V	ceramic
C111	1-102-919-11	0.002	$\pm^{80}_{20}$%	50V	ceramic
C112	1-101-924-11	0.02	$\pm^{80}_{20}$%	25V	ceramic
C113	1-102-510-11	12p	±5%	50V	ceramic
C114	1-101-924-11	0.02	$\pm^{80}_{20}$%	25V	ceramic
C115	1-101-924-11	0.02	$\pm^{80}_{20}$%	25V	ceramic
C116	1-101-924-11	0.02	$\pm^{80}_{20}$%	25V	ceramic
C117	1-102-887-11	47p	±5%	50V	ceramic
C118	1-102-876-11	3p	±5%	50V	ceramic
C201	1-102-110-11	220p	±10%	50V	ceramic
C202	1-101-919-11	0.002	$\pm^{80}_{20}$%	25V	ceramic

Ref. No.	Part No.		Description	
C203	1-101-924-11	0.02	$\pm^{80}_{20}\%$ 25V	ceramic
C204	1-101-924-11	0.02	$\pm^{80}_{20}\%$ 25V	ceramic
C205	1-102-110-11	220p	±10% 50V	ceramic
C206	1-101-919-11	0.002	$\pm^{80}_{20}\%$ 25V	ceramic
C207	1-101-924-11	0.02	$\pm^{80}_{20}\%$ 25V	ceramic
C210	1-121-415-11	100	16V	
C211	1-121-651-11	10	16V	
C212	1-121-651-11	10	16V	
C213	1-101-924-11	0.02	$\pm^{80}_{20}\%$ 25V	ceramic
C301	1-121-726-11	0.47	50V	
C302	1-121-450-11	2.2	50V	
C303	1-121-651-11	10	16V	
C304	1-121-651-11	10	16V	
C305	1-105-681-12	0.047	±10% 50V	mylar
C306	1-121-726-11	0.47	50V	
C307	1-121-726-11	0.47	50V	
C308	1-103-717-11	470p	±5% 50V	styrol
C309	1-127-019-11	0.1	10V	solid aluminum
C310	1-127-091-11	0.22	25V	solid aluminum
C311	1-121-651-11	10	16V	
C312	1-121-421-11	220	16V	
C313	1-105-512-12	8200p	±5% 50V	mylar
C314	1-105-507-12	3300p	±5% 50V	mylar
C315	1-105-512-12	8200p	±5% 50V	mylar
C316	1-105-507-12	3300p	±5% 50V	mylar
C317	1-105-673-12	0.01	±10% 50V	mylar
C318	1-121-651-11	10	16V	
C319	1-101-880-11	47p	±5% 50V	ceramic
C320	1-102-107-11	120p	±10% 50V	ceramic
C321	1-102-107-11	120p	±10% 50V	ceramic
C401(C451)	1-131-206-11	3.3	25V	tantalum
C402(C452)	1-121-392-11	3.3	25V	
C403(C453)	1-121-352-11	47	10V	
C454	1-121-398-11	10	25V	
C405(C455)	1-105-661-12	0.001	±10% 50V	mylar
C501	1 121-392-11	3.3	25V	
C502	1-121-398-11	10	25V	
C503	1-105-661-12	0.001	±10% 50V	mylar
C504	1-121-404-11	33	25V	
C505	1-121-935-11	100	25V	
C506	1-121-392-11	3.3	25V	
C507	1-105-685-12	0.1	±10% 50V	mylar

Ref. No.	Part No.		Description	
C601	1-121-912-11	1	50V	
C602	1-121-912-11	1	50V	
C603	1-121-352-11	47	10V	
C604	1-121-651-11	10	16V	
C605~C614	1-121-912-11	1	50V	
C651	1-121-911-11	0.47	50V	
C652	1-121-911-11	0.47	50V	
C653	1-121-911-11	0.47	50V	
C654	1-121-911-11	0.47	50V	
C655	1-105-685-12	0.1	±10% 50V	mylar
C656	1-105-685-12	0.1	±10% 50V	mylar
C657	1-121-912-11	1	50V	
C658	1-121-912-11	1	50V	
C659	1-121-651-11	10	16V	
C660	1-121-651-11	10	16V	
C661	1-105-689-12	0.22	±10% 50V	mylar
C662	1-105-661-12	0.001	±10% 50V	mylar
C663	1-105-661-12	0.001	±10% 50V	mylar
C664	1-105-661-12	0.001	±10% 50V	mylar
C665	1-105-661-12	0.001	±10% 50V	mylar
C666	1-105-677-12	0.022	±10% 50V	mylar
C667	1-105-677-12	0.022	±10% 50V	mylar
C701(C751) C801(C851)	1-121-912-11	1	50V	
C702(C752) C802(C852)	1-121-912-11	1	50V	
C703(C753) C803(C853)	1-105-683-12	0.068	±10% 50V	mylar
C704(C754) C804(C854)	1-102-117-11	820p	±20% 50V	ceramic
C705(C755) C805(C855)	1-121-912-11	1	50V	
C706(C756) C806(C856)	1-102-969-11	33p	±10% 50V	ceramic
C707(C757) C807(C857)	1-121-913-11	3.3	25V	
C708(C758) C808(C858)	1-105-665-12	0.0022	±10% 50V	mylar
C709(C759) C809(C859)	1-105-679-12	0.033	±10% 50V	mylar
C710(C760) C810(C860)	1-105-679-12	0.033	±10% 50V	mylar
C711(C761) C811(C861)	1-121-913-11	3.3	25V	
C712(C762) C812(C862)	1-121-913-11	3.3	25V	

Ref. No.	Part No.		Description	
C713(C763) C813(C863)	1-101-881-11	47p	±10% 50V	ceramic
C714(C764) C814(C864)	1-121-913-11	3.3	25V	
C715(C765) C815(C865)	1-105-673-12	0.01	±10% 50V	mylar
C716(C766) C816(C866)	1-105-683-12	0.068	±10% 50V	mylar
C717(C767) C817(C867)	1-121-392-11	3.3	25V	
C718(C768) C818(C868)	1-102-098-11	470p	±10% 50V	ceramic
C719(C769) C819(C869)	1-123-058-11	47	50V	
C720(C770) C820(C870)	1-121-352-11	47	10V	
C721(C771) C821(C871)	1-102-944-11	7p	±0.5p 50V	ceramic
C722(C772) C822(C872)	1-121-413-11	100	6.3V	
C723(C773) C823(C873)	1-105-679-12	0.033	±10% 50V	mylar
C724(C774) C824(C874)	1-105-679-12	0.033	±10% 50V	mylar
C725(C775) C825(C875)	1-105-679-12	0.033	±10% 50V	mylar
C901	1-123-141-11	10000	50V	
C902	1-123-141-11	10000	50V	
C903	1-121-945-11	1000	35V	
C904	1-121-945-11	1000	35V	
C905	1-123-063-11	220	35V	
C906	1-123-063-11	220	35V	
C907	1-121-936-11	220	25V	
C908	1-121-936-11	220	25V	
C909	1-121-935-11	100	25V	
C910	1-121-480-11	22	25V	
C911	1-121-410-11	47	25V	
C912	1-121-410-11	47	25V	
C913	1-121-410-11	47	25V	
C914	1-121-653-11	47	35V	
C915	1-121-419-11	220	6.3V	
C916	1-121-402-11	33	10V	
C917	1-121-392-11	3.3	25V	
C918	1-121-392-11	3.3	25V	
C919	1-121-940-11	470	25V	
C920	1-121-935-11	100	25V	

Ref. No.	Part No.		Description	
C921	1-121-415-11	100	16V	
C922	1-121-415-11	100	16V	
C923	1-121-935-11	100	25V	
C924	1-121-935-11	100	25V	
C925	1-121-935-11	100	25V	
C926	1-121-935-11	100	25V	
C927	1-121-257-11	4.7	16V	
C928	1-121-257-11	4.7	16V	
C929	1-121-257-11	4.7	16V	
C1401	1-105-677-12	0.022	±10% 50V	mylar
C1402	1-102-808-11	6p	±1p 50V	ceramic
C1403	1-105-677-12	0.022	±10% 50V	mylar
C1404	1-105-519-12	0.033	±5% 50V	mylar
C1409	1-121-391-11	1	50V	
C1410	1-105-677-12	0.022	±10% 50V	mylar
C1411	1-105-677-12	0.022	±10% 50V	mylar
C1412	1-105-677-12	0.022	±10% 50V	mylar
C1413	1-127-019-11	0.1	10V	solid aluminum
C1415	1-121-391-11	1	50V	
C1416	1-101-884-11	56p	±5% 50V	ceramic
C1417	1-105-677-12	0.022	±10% 50V	mylar
C1418	1-105-677-12	0.022	±10% 50V	mylar
C1419	1-105-519-12	0.033	±5% 50V	mylar
C1420	1-121-413-11	100	6.3V	
C1421	1-105-519-12	0.033	±5% 50V	mylar
C1422	1-121-479-11	22	16V	
C1423	1-105-677-12	0.022	±10% 50V	mylar
C1424	1-121-409-11	47	16V	
C1425	1-121-651-11	10	16V	
C1426	1-105-677-12	0.022	±10% 50V	mylar
C1428	1-105-677-12	0.022	±10% 50V	mylar
C1429	1-105-673-12	0.01	±10% 50V	mylar
C1430	1-105-677-12	0.022	±10% 50V	mylar
C1501	1-121-651-11	10	16V	
C1502	1-121-391-11	1	50V	
C1503	1-121-479-11	22	16V	
C1504	1-121-391-11	1	50V	
C1505	1-101-924-11	0.02	$\pm^{80}_{20}\%$ 25V	ceramic
C1506	1-101-919-11	0.002	$\pm^{80}_{20}\%$ 25V	ceramic
C1507	1-101-919-11	0.002	$\pm^{80}_{20}\%$ 25V	ceramic
C1509	1-101-919-11	0.002	$\pm^{80}_{20}\%$ 25V	ceramic
C1510	1-121-391-11	1	50V	
C1511	1-105-681-12	0.047	±10% 50V	mylar
C1512	1-121-479-11	22	16V	

Ref. No.	Part No.	Description		
C1513	1-101-924-11	0.02	$\pm^{80}_{20}\%$ 25V	ceramic
C1514	1-121-391-11	1	50V	
C1601(C1651)	1-127-021-11	0.3	10V	solid aluminum
C1602(C1652)	1-101-884-11	56p	±5% 50V	ceramic
C1603(C1653)	1-121-916-11	10	16V	
CT1401 CT1402	1-141-147-00	Capacitor, trimmer		

RESISTORS

All resistors are in Ω, ±5%, ¼W and carbon type unless otherwise specified.

R1	1-202-719-11	1M	½W	composition
R101	1-244-705-11	22k		
R102	1-244-713-11	47k		
R103	1-244-633-11	22		
R104	1-244-649-11	100		
R105	1-244-681-11	2.2k		
R106	1-244-713-11	47k		
R107	1-244-721-11	100k		
R108	1-244-689-11	4.7k		
R109	1-244-697-11	10k		
R110	1-244-665-11	470		
R111	1-244-673-11	1k		
R112	1-244-673-11	1k		
R113	1-244-649-11	100		
R114	1-244-657-11	220		
R115	1-244-661-11	330		
R201	1-244-661-11	330		
R202	1-244-673-11	1k		
R203	1-244-657-11	220		
R204	1-244-625-11	10		
R205	1-244-661-11	330		
R206	1-244-685-11	3.3k		
R207	1-244-653-11	150		
R208	1-244-625-11	10		
R209	1-244-701-11	15k		
R210	1-244-625-11	10		
R211	1-244-673-11	1k		
R212	1-244-673-11	1k		
R213	1-244-693-11	6.8k		
R251	1-244-673-11	1k		
R252	1-244-657-11	220		
R253	1-244-667-11	560		
R301	1-244-745-11	1M		
R302	1-244-745-11	1M		
R303	1-244-733-11	330k		
R304	1-244-695-11	8.2k		
R305	1-244-745-11	1M		
R306	1-244-705-11	22k		
R307	1-244-713-11	47k		
R308	1-244-729-11	220k		
R309	1-244-693-11	6.8k		
R310	1-244-693-11	6.8k		
R311	1-202-559-11	270	½W	composition
R312	1-244-721-11	100k		
R313	1-244-681-11	2.2k		
R314	1-244-701-11	15k		
R315	1-244-673-11	1k		
R316	1-244-653-11	150		
R317	1-244-737-11	470k		
R318	1-244-717-11	68k		
R319	1-244-697-11	10k		
R320	1-244-721-11	100k		
R321	1-244-681-11	2.2k		
R322	1-244-687-11	3.9k		
R323	1-244-697-11	10k		
R324	1-244-705-11	22k		
R401(R451)	1-244-669-11	680		
R402(R452)	1-244-705-11	22k		
R403(R453)	1-244-697-11	10k		
R404(R454)	1-244-697-11	10k		
R405(R455)	1-244-735-11	390k		
R406(R456)	1-244-719-11	82k		
R407(R457)	1-244-673-11	1k		
R408(R458)	1-244-673-11	1k		
R409(R459)	1-244-729-11	220k		
R410(R460)	1-244-729-11	220k		
R501	1-244-721-11	100k		
R502	1-244-721-11	100k		
R503	1-244-673-11	1k		
R504	1-244-721-11	100k		
R505	1-244-705-11	22k		

Ref. No.	Part No.	Description
R506	1-244-718-11	75k
R507	1-244-697-11	10k
R508	1-244-671-11	820
R509	1-244-709-11	33k
R510	1-244-657-11	220
R511	1-244-685-11	3.3k
R512	1-244-673-11	1k
R513	1-244-709-11	33k
R514	1-244-699-11	12k
R515	1-244-699-11	12k
R516	1-244-697-11	10k
R517	1-244-713-11	47k
R601	1-244-721-11	100k
R602	1-244-721-11	100k
R603	1-244-725-11	150k
R604	1-244-725-11	150k
R605~R610	1-244-693-11	6.8k
R611~R620	1-244-729-11	220k
R621	1-244-709-11	33k
R622	1-244-709-11	33k
R623	1-244-697-11	10k
R651~R654	1-244-677-11	1.5k
R655	1-244-697-11	10k
R656	1-244-697-11	10k
R657	1-244-713-11	47k
R658	1-244-713-11	47k
R659	1-244-701-11	15k
R660	1-244-701-11	15k
R661~R664	1-244-729-11	220k
R665	1-244-697-11	10k
R666	1-244-697-11	10k
R667	1-244-727-11	180k
R668	1-244-727-11	180k
R669	1-244-721-11	100k
R670	1-244-721-11	100k
R671		--------------
R672		--------------
R673~R676	1-244-745-11	1M
R677	1-244-697-11	10k
R678	1-244-673-11	1k
R679	1-244-705-11	22k
R680	1-244-657-11	220
R681	1-244-705-11	22k
R701(R751) R801(R851)	1-244-729-11	220k
R702(R752) R802(R852)	1-244-697-11	10k
R703(R753) R803(R853)	1-244-689-11	4.7k
R704(R754) R804(R854)	1-244-689-11	4.7k
R705(R755) R805(R855)	1-244-697-11	10k
R706(R756) R806(R856)	1-244-709-11	33k
R707(R757) R807(R857)	1-244-681-11	2.2k
R708(R758) R808(R858)	1-244-701-11	15k
R709(R759) R809(R859)	1-244-745-11	1M
R710(R760) R810(R860)	1-244-721-11	100k
R711(R761) R811(R861)	1-244-669-11	680
R712(R762) R812(R862)	1-244-705-11	22k
R713(R763) R813(R863)	1-244-689-11	4.7k
R714(R764) R814(R864)	1-244-649-11	100
R715(R765) R815(R865)	1-244-697-11	10k
R716(R766) R816(R866)	1-244-689-11	4.7k
R717(R767) R817(R867)	1-244-697-11	10k
R718(R768) R818(R868)	1-244-697-11	10k
R719(R769) R819(R869)	1-244-745-11	1M
R720(R770) R820(R870)	1-244-693-11	6.8k
R721(R771) R821(R871)	1-244-681-11	2.2k
R722(R772) R822(R872)	1-244-721-11	100k
R723(R773) R823(R873)	1-244-721-11	100k
R724(R774) R824(R874)	1-244-697-11	10k

Ref. No.	Part No.		Description
R506	1-244-718-11	75k	
R507	1-244-697-11	10k	
R508	1-244-671-11	820	
R509	1-244-709-11	33k	
R510	1-244-657-11	220	
R511	1-244-685-11	3.3k	
R512	1-244-673-11	1k	
R513	1-244-709-11	33k	
R514	1-244-699-11	12k	
R515	1-244-699-11	12k	
R516	1-244-697-11	10k	
R517	1-244-713-11	47k	
R601	1-244-721-11	100k	
R602	1-244-721-11	100k	
R603	1-244-725-11	150k	
R604	1-244-725-11	150k	
R605~R610	1-244-693-11	6.8k	
R611~R620	1-244-729-11	220k	
R621	1-244-709-11	33k	
R622	1-244-709-11	33k	
R623	1-244-697-11	10k	
R651~R654	1-244-677-11	1.5k	
R655	1-244-697-11	10k	
R656	1-244-697-11	10k	
R657	1-244-713-11	47k	
R658	1-244-713-11	47k	
R659	1-244-701-11	15k	
R660	1-244-701-11	15k	
R661~R664	1-244-729-11	220k	
R665	1-244-697-11	10k	
R666	1-244-697-11	10k	
R667	1-244-727-11	180k	
R668	1-244-727-11	180k	
R669	1-244-721-11	100k	
R670	1-244-721-11	100k	
R671		--------------	
R672		--------------	
R673~R676	1-244-745-11	1M	
R677	1-244-697-11	10k	
R678	1-244-673-11	1k	
R679	1-244-705-11	22k	
R680	1-244-657-11	220	
R681	1-244-705-11	22k	

Ref. No.	Part No.		Description
R701(R751) R801(R851)	1-244-729-11	220k	
R702(R752) R802(R852)	1-244-697-11	10k	
R703(R753) R803(R853)	1-244-689-11	4.7k	
R704(R754) R804(R854)	1-244-689-11	4.7k	
R705(R755) R805(R855)	1-244-697-11	10k	
R706(R756) R806(R856)	1-244-709-11	33k	
R707(R757) R807(R857)	1-244-681-11	2.2k	
R708(R758) R808(R858)	1-244-701-11	15k	
R709(R759) R809(R859)	1-244-745-11	1M	
R710(R760) R810(R860)	1-244-721-11	100k	
R711(R761) R811(R861)	1-244-669-11	680	
R712(R762) R812(R862)	1-244-705-11	22k	
R713(R763) R813(R863)	1-244-689-11	4.7k	
R714(R764) R814(R864)	1-244-649-11	100	
R715(R765) R815(R865)	1-244-697-11	10k	
R716(R766) R816(R866)	1-244-689-11	4.7k	
R717(R767) R817(R867)	1-244-697-11	10k	
R718(R768) R818(R868)	1-244-697-11	10k	
R719(R769) R819(R869)	1-244-745-11	1M	
R720(R770) R820(R870)	1-244-693-11	6.8k	
R721(R771) R821(R871)	1-244-681-11	2.2k	
R722(R772) R822(R872)	1-244-721-11	100k	
R723(R773) R823(R873)	1-244-721-11	100k	
R724(R774) R824(R874)	1-244-697-11	10k	

Ref. No.	Part No.		Description
R725(R775) R825(R875)	1-244-709-11	33k	
R726(R826)	1-244-681-11	2.2k	
R776(R876)	1-244-682-11	2.4k	
R727(R827)	1-244-709-11	33k	
R777(R877)	1-244-705-11	22k	
R728(R778) R828(R878)	1-244-697-11	10k	
R729(R779) R829(R879)	1-217-156-11	0.22	5W wirewound (cement coated)
R730(R780) R830(R880)	1-244-665-11	470	
R731(R781) R831(R881)	1-244-689-11	4.7k	
R732(R782) R832(R882)	1-244-617-11	4.7	
R733(R783) R833(R883)	1-202-525-11	10	½W composition
R736(R786) R836(R886)	1-202-565-11	470	½W composition
R737(R787) R837(R887)	1-202-565-11	470	½W composition
R738(R788) R838(R888)	1-244-673-11	1k	
R739(R789) R839(R889)	1-244-705-11	22k	
R740(R790) R840(R890)	1-244-721-11	100k	
R741(R791) R841(R891)	1-244-673-11	1k	
R901	1-242-625-11	10	
R902	1-206-469-11	18	2W metal-oxide
R903	1-242-625-11	10	
R904	1-242-625-11	10	
R905	1-244-673-11	1k	
R906	1-244-673-11	1k	
R907	1-244-673-11	1k	
R908	1-244-673-11	1k	
R909	1-242-625-11	10	
R910	1-244-673-11	1k	
R911	1-244-697-11	10k	
R912	1-244-696-11	9.1k	
R913	1-244-679-11	1.8k	
R914	1-244-701-11	15k	
R915	1-244-705-11	22k	
R916	1-244-719-11	82k	

Ref. No.	Part No.		Description
R917	1-244-695-11	8.2k	
R918	1-244-713-11	47k	
R919	1-244-713-11	47k	
R920	1-244-705-11	22k	
R921	1-244-697-11	10k	
R922	1-244-671-11	820	
R923	1-244-671-11	820	
R924	1-244-705-11	22k	
R925	1-244-705-11	22k	
R926	1-242-601-11	1	
R927	1-242-601-11	1	
R928	1-244-649-11	100	
R929	1-244-657-11	220	
R930	1-206-647-11	200	2W metal-oxide
R931	1-242-670-11	750	
R932	1-206-647-11	200	2W metal-oxide
R933	1-242-670-11	750	
R934	1-244-649-11	100	
R935	1-244-649-11	100	
R936	1-244-649-11	100	
R937	1-244-649-11	100	
R938	1-244-667-11	560	
R951	1-202-547-11	82	½W composition
R952	1-202-547-11	82	½W composition
R953	1-202-547-11	82	½W composition
R954	1-202-542-11	51	½W composition
R1401	1-244-691-11	5.6k	
R1402	1-244-723-11	120k	
R1403	1-244-693-11	6.8k	
R1404	1-244-663-11	390	
R1405	1-244-680-11	1k	
R1406	1-244-729-11	220k	
R1407	1-244-693-11	6.8k	
R1408	1-244-715-11	56k	
R1409	1-244-691-11	5.6k	
R1410	1-244-673-11	1k	
R1411	1-244-677-11	1.5k	
R1412	1-244-689-11	4.7k	
R1413	1-244-667-11	560	
R1414	1-244-661-11	330	
R1415	1-244-643-11	56	
R1416	1-244-657-11	220	
R1417	1-244-679-11	1.8k	

Ref. No.	*Part No.*	*Description*
R1418	1-244-673-11	1k
R1419	1-244-661-11	330
R1420	1-244-690-11	5.1k
R1421	1-244-667-11	560
R1422	1-244-697-11	10k
R1423	1-244-643-11	56
R1424	1-244-673-11	1k
R1425	1-244-661-11	330
R1426	1-244-643-11	56
R1427	1-244-693-11	6.8k
R1428	1-244-677-11	1.5k
R1429	1-244-681-11	2.2k
R1430	1-244-745-11	1M
R1431	1-244-685-11	3.3k
R1501	1-244-693-11	6.8k
R1502	1-244-673-11	1k
R1503	1-244-673-11	1k
R1504	1-244-713-11	47k
R1505	1-244-725-11	150k
R1506	1-244-673-11	1k
R1507	1-244-673-11	1k
R1508	1-244-713-11	47k
R1509	1-244-717-11	68k
R1510	1-244-681-11	2.2k
R1511	1-244-673-11	1k
R1512	1-244-721-11	100k
R1513	1-244-721-11	100k
R1514	1-244-665-11	470
R1515	1-244-665-11	470
R1516	1-244-673-11	1k
R1517	1-244-689-11	4.7k
R1518	1-244-689-11	4.7k
R1519	1-244-665-11	470
R1520	1-244-673-11	1k
R1521	1-244-689-11	4.7k
R1522	1-244-673-11	1k
R1523	1-244-673-11	1k
R1601(R1651)	1-244-733-11	330k
R1602(R1652)	1-244-717-11	68k
R1603(R1653)	1-244-669-11	680
R1604(R1654)	1-244-685-11	3.3k
RT601	1-221-979-00	22k, adjustable

Ref. No.	*Part No.*	*Description*
RV301	1-222-752-00	10k, adjustable
RV501	1-224-464-00	50k (C), variable (MIC MIX)
RV701(RV751) RV801(RV851)	1-224-466-00	50k (B), variable (MASTER VOLUME)
RV702(RV752) RV802(RV852)	1-224-467-00	100k (B), variable (LEVEL)
RV703(RV753) RV803(RV853)	1-224-465-00	50k (B), variable (TREBLE)
RV704(RV754) RV804(RV854)	1-224-465-00	50k (B), variable (BASS)
RV1501	1-222-752-00	10k, adjustable
RV1502	1-222-752-00	10k, adjustable
RV1601	1-222-765-00	47k, adjustable
RV1602	1-222-752-00	10k, adjustable
RV1603	1-222-752-00	10k, adjustable

SWITCHES

S1~S4	1-516-549-00	Pushbutton, 8-key (FUNCTION, MONITOR)
S6		– built in RV501 – (MIC MIX)
S7	1-516-551-00	Rotary/Slide (SYSTEM)
S5 S8~S12	1-516-550-00	Pushbutton, 6-key (FM, FILTER, LOUDNESS, MONO)
S13	1-516-552-00	Pushbutton (METER SENS)
S14	1-516-554-00	Rotary (SPEAKER SELECT)
S15	1-516-553-00	Slide (HI POWER)
S16	1-516-555-00	Lever (POWER)
S301,302	1-514-448-00	Slide (de-emphasis)

FILTERS

CF201 CF202	1-527-240-11	Fm I-f, ceramic; 10.70MHz (red)
	1-527-240-21	Fm I-f, ceramic; 10.67 MHz (blue)
	1-527-240-31	Fm I-f, ceramic; 10.73MHz (orange)
	1-527-240-41	Fm I-f, ceramic; 10.64 MHz (black)
	1-527-240-51	Fm I-f, ceramic; 10.76 MHz (white)
LPF1601	1-231-219-00	Low-pass

LAMPS

Ref. No.	*Part No.*	*Description*
PL1~PL8 PL15	1-518-237-00	Dial/VU Meter/Signal Multipath Meter (with grommet) 8V 0.3A
PL9	1-518-175-00	SQ, 4.5 V 40 mA
PL10	1-518-172-00	FM, 4.5 V 40 mA
PL11	1-518-173-00	AM, 4.5 V 40 mA
PL12	1-518-174-00	AUX, 4.5 V 40 mA
PL13	1-518-171-00	PHONO, 4.5 V 40 mA
PL14	1-518-169-00	MIC, 4.5 V 40 mA
PL16	1-518-170-00	STEREO, 4.5 V 40 mA
PL17	1-518-229-00	Pointer, dial; with lamp 5V 40mA

MISCELLANEOUS

CNJ1	1-507-448-00	Jack, MIC
CNJ2	1-509-551-00	Connector, REC/PB
CNJ3	1-509-657-00	Connector, remote control
CNJ4 CNJ5	1-507-439-00	Jack, HEADPHONE
CNJ6 CNJ7	1-509-403-00	Outlet, AC
CP201	1-231-278-00	Encapsulated Component
CP601	1-102-356-00	Capacitor, ceramic
CP602 CP603	1-231-266-00	Encapsulated Component

Ref. No.	*Part No.*	*Description*
CP901 CP902	1-102-355-00	Capacitor, ceramic
CP905	1-231-057-00	Encapsulated Component, 120 Ω+0.033μF
F1, F2	1-532-220-00	Fuse, 3AT
M1	1-520-200-00	Meter, SIGNAL MULTIPATH
M2~M5	1-520-199-00	Meter, VU
TM1	1-536-469-00	Terminal Strip (ANTENNA)
TM2~TM5	1-535-057-00	Terminal Post (SPEAKER)
	1-507-366-00	Jack, phono; 6-P
	1-507-379-00	Jack, phono; 8-P
	1-507-411-00	Jack, phono; 1-P
	1-508-684-00	Connector, 2-P
	1-533-089-00	Holder, fuse
	1-534-526-00	Cord, power
	1-535-074-00	Socket, IC
	1-535-087-00	Binding Post, GROUND
	1-535-089-00	Terminal Post
	1-536-352-00	Jack, phono; 4-P
	1-536-354-00	Terminal Post
	1-536-395-00	Terminal Strip, 1L1
	1-583-330-00	Printed Circuit Board (B), lamp
	1-583-327-00	Printed Circuit Board, power supply (A)
	1-583-331-00	Printed Circuit Board (A), lamp

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LAMPS

Ref. No.	Part No.	Description
PL1~PL8 PL15	1-518-237-00	Dial/VU Meter/Signal Multipath Meter (with grommet) 8V 0.3A
PL9	1-518-175-00	SQ, 4.5 V 40 mA
PL10	1-518-172-00	FM, 4.5 V 40 mA
PL11	1-518-173-00	AM, 4.5 V 40 mA
PL12	1-518-174-00	AUX, 4.5 V 40 mA
PL13	1-518-171-00	PHONO, 4.5 V 40 mA
PL14	1-518-169-00	MIC, 4.5 V 40 mA
PL16	1-518-170-00	STEREO, 4.5 V 40 mA
PL17	1-518-229-00	Pointer, dial; with lamp 5V 40mA

MISCELLANEOUS

Ref. No.	Part No.	Description
CNJ1	1-507-448-00	Jack, MIC
CNJ2	1-509-551-00	Connector, REC/PB
CNJ3	1-509-657-00	Connector, remote control
CNJ4 CNJ5	1-507-439-00	Jack, HEADPHONE
CNJ6 CNJ7	1-509-403-00	Outlet, AC
CP201	1-231-278-00	Encapsulated Component
CP601	1-102-356-00	Capacitor, ceramic
CP602 CP603	1-231-266-00	Encapsulated Component
CP901 CP902	1-102-355-00	Capacitor, ceramic
CP905	1-231-057-00	Encapsulated Component, 120 Ω+0.033 μF
F1, F2	1-532-220-00	Fuse, 3AT
M1	1-520-200-00	Meter, SIGNAL MULTIPATH
M2~M5	1-520-199-00	Meter, VU
TM1	1-536-469-00	Terminal Strip (ANTENNA)
TM2~TM5	1-535-057-00	Terminal Post (SPEAKER)
	1-507-366-00	Jack, phono; 6-P
	1-507-379-00	Jack, phono; 8-P
	1-507-411-00	Jack, phono; 1-P
	1-508-684-00	Connector, 2-P
	1-533-089-00	Holder, fuse
	1-534-526-00	Cord, power
	1-535-074-00	Socket, IC
	1-535-087-00	Binding Post, GROUND
	1-535-089-00	Terminal Post
	1-536-352-00	Jack, phono; 4-P
	1-536-354-00	Terminal Post
	1-536-395-00	Terminal Strip, 1L1
	1-583-330-00	Printed Circuit Board (B), lamp
	1-583-327-00	Printed Circuit Board, power supply (A)
	1-583-331-00	Printed Circuit Board (A), lamp

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